

ENSR Reference No.: 9000-218

23 February, 2001

U.S. Army Corps of Engineers
New England District
Concord Park
696 Virginia Road
Concord, MA 01742

Attention: Mr. Joseph Mckay

Re: Contract No. DACW 33-96-D-0004
DELIVERY ORDER NO. 0037
New Bedford Harbor Long-Term Monitoring III
Final Summary Report

Dear Jay:

I am pleased to submit the Final Version of the Report: NEW BEDFORD HARBOR LONG-TERM MONITORING SURVEY III: SUMMARY REPORT. This final version incorporates the technical comments submitted by Skip Nelson, Dave Dickerson, and you.

A total of 25 copies are distributed as follows: W. Nelson (10); D. Dickerson (10); J. Mckay (5).

Please feel free to contact me if there are any questions.

Sincerely,


James A. Blake, Ph.D.
Project Manager

cc: J. Reid/M. Kane
File No. 9000-218
C. Keyworth/D. Galya
W. Nelson, EPA
D. Dickerson, EPA



SDMS DocID 000217264

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8.4
New Bedford

Final

**New Bedford Harbor Long Term Monitoring Survey III:
Summary Report**

Submitted to



**U.S. Army Corps of Engineers, New England District
696 Virginia Road
Concord, Massachusetts 01742-2751**

Prepared by



Under

**Contract No. DACW33-96-D-0004
Task Order No. 037**

March 2001

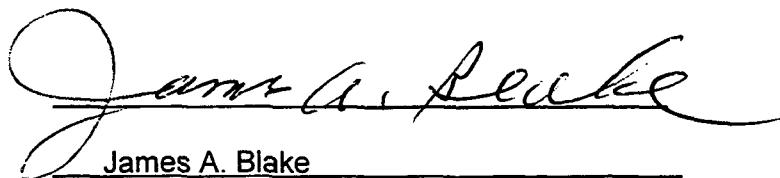
Certification

This submission has been subjected to internal review in accordance with ENSR's review and coordination procedures to ensure:

- (a) completeness for each discipline commensurate with the level of effort required for the submission
- (b) elimination of conflicts, errors and omissions, and
- (c) the overall professional and technical accuracy of the submission.

Signed for ENSR

Signature



Name

James A. Blake

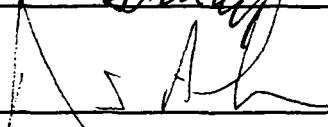
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Dion Lewis

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Senior Marine Chemist

Date

7 March 01

Final

**New Bedford Harbor Long Term Monitoring Survey III:
Summary Report**

Submitted to



**U.S. Army Corps of Engineers, New England District
696 Virginia Road
Concord, Massachusetts 01742-2751**

Prepared by

**James A. Blake, Pamela L. Arnofsky, Dion Lewis, Nancy J. Maciolek, Debra McGrath,
David Mitchell, and Isabelle P. Williams**



Under

**Contract No. DACW33-96-D-0004
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1.0 INTRODUCTION

The New Bedford Harbor (NBH) Superfund Site, located in southeastern Massachusetts, extends from the shallow northern reaches of the Acushnet River estuary south through the commercial harbor of New Bedford and into 17,000 adjacent acres of Buzzards Bay. Industrial and urban development surrounding the harbor has resulted in sediments becoming contaminated with high concentrations of many pollutants, notably polychlorinated biphenyls (PCBs) and heavy metals, with contaminant gradients decreasing from north to south. From the 1940s into the 1970s, two electrical capacitor manufacturing facilities, one located near the northern boundary of the site and one located just south of the NBH hurricane barrier, discharged PCB wastes either directly into the harbor or indirectly via discharges to the city's sewerage system.

Currently on the National Priorities List (NPL), the harbor has been divided by the U.S. Environmental Protection Agency (EPA) into three study areas: the upper, lower, and outer harbors. The upper harbor is the most contaminated segment, with historical PCB concentrations recorded up to 100,000 ppm. This area and adjacent sites in the lower and outer harbor are closed to commercial and recreational fishing. Because of the potential danger to human health, a remediation plan is underway to remove PCB-contaminated sediments from the harbor. Approximately 14,000 yd³ of the most contaminated sediment in the upper harbor were removed in 1994 and 1995. Planning is currently underway to remove the remaining contaminated sediment beginning in late 2002.

In an effort to assess the effectiveness of the Superfund remedies, a long-term monitoring (LTM) plan was developed by the EPA's Research Laboratory, Atlantic Ecology Division (EPA/AED) in Narragansett, Rhode Island. The LTM project focuses on the ecological health of the sediments and includes collection of data on sediment chemistry, grain size, toxicity, and benthic infauna. A limited hydrographic effort was also performed to measure temperature, salinity, and dissolved oxygen from water near the bottom at each of the sediment stations.

Two previous sampling rounds for this program include baseline sampling conducted in October 1993 (LTM I) and a second event (LTM II) conducted immediately after removal of the "hot spot" sediments in October 1995. LTM III, conducted from September to November 1999, represents the third sampling round of the EPA/AED plan. Sampling was conducted at 79 separate stations located in the three areas of New Bedford Harbor. The main parameters measured in the monitoring program include acid volatile sulfide, nine metals, 18 PCB congeners, total organic carbon, and sediment grain-size composition; sediment is also collected for assessing toxicity and for developing benthic community data. A review of the history of PCB contamination and remediation efforts in NBH together with a summary of the long-term monitoring strategy and results of the 1993 survey are presented in Nelson et al. (1996).

EPA New England has overall responsibility for all phases of the study. EPA/AED developed the sampling design, provided technical support, and participated in quality assurance oversight. The U.S. Army Corps of Engineers (USACE) was responsible for implementing LTM III, including oversight of USACE's contractor, ENSR, who performed the field sampling, oversaw sample analysis, and prepared the report. Boat services and laboratory analyses for chemical, physical, and biological parameters were provided under subcontract to ENSR.

2.0 METHODS

2.1 Quality Assurance

Quality Assurance (QA) for this project is presented in detail in the Quality Assurance Project Plan (QAPP) developed for this project (ENSR, 1999). As part of the QA program, the ENSR QA Officer, Ms. Debra McGrath, conducted field audits in order to ensure that the field team understood and was using the appropriate methodology for field sampling; audited the subcontractor laboratories performing the chemistry and toxicology analyses; and validated the entire data set before it was submitted.

2.2 Field Methods

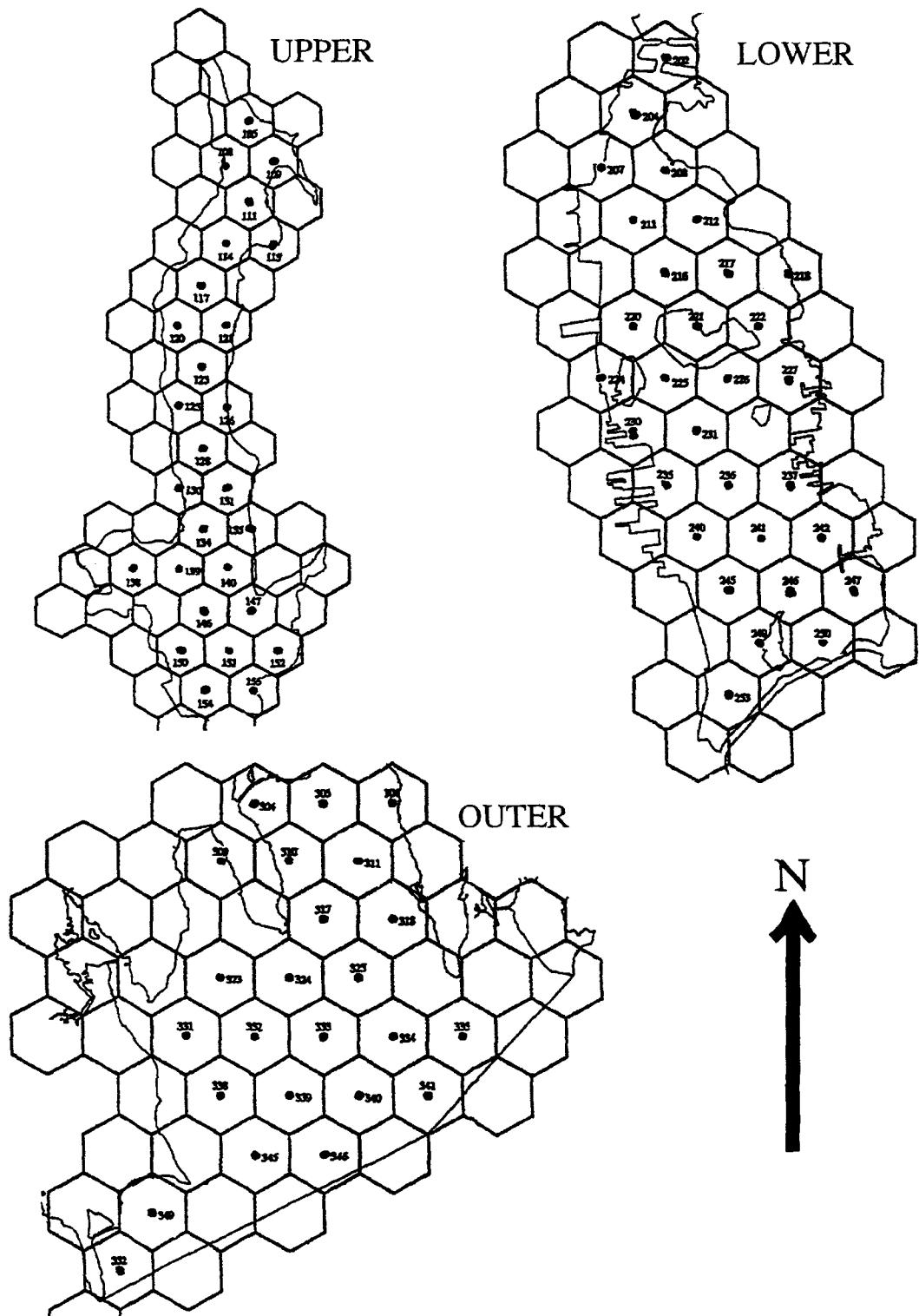
The areal coverage and sampling strategy was based on a format originally developed as part of the Environmental Monitoring and Assessment Program (EMAP) as implemented for the baseline sampling conducted in 1993 (Nelson et al., 1996):

- **Segment 1** (Upper Harbor) included the area north of the Coggeshall Street Bridge and those sediments identified as most contaminated (27 stations),
- **Segment 2** (Lower Harbor) included the area between the Coggeshall Street Bridge and the hurricane barrier (29 stations),
- **Segment 3** (Outer Harbor) included the area beyond the hurricane barrier and a transition into Buzzards Bay to the edge of the Fishing Closure Area III (23 stations).

Within each of these segments, a systematic hexagonal grid consisting of approximately 30 units (stations) was applied (Figure 1). Because the area encompassed by Segments 1, 2, and 3 becomes progressively larger, the size of individual hexagons is adjusted according to the size of the segment. This means that the hexagons are approximately 0.25-mile wide in Segment 1, 0.5-mile wide in Segment 2, and over 1-mile wide in Segment 3. Theoretically, any position sampled within a hexagon would constitute a station location, but in actual practice the coordinates in the center of each hexagon were used as the original target location.

Navigation was performed using a Northstar 941X Differential Global Positioning System (DGPS). Stations were located using the target coordinates established during the 1993 and 1995 surveys. For the most part, these target locations were suitable sites for grab sampling, but there were instances where underwater hazards or sedimentary conditions precluded successful sampling and it was necessary to reposition within the station hexagon boundaries. The actual coordinates for the 79 stations sampled are provided in Appendix 1. Stations are formally designated "NB99-xxx" to

Figure 1. Map Showing Station Numbering System for New Bedford Harbor Benthic Monitoring.



designate the current sampling year, but for simplicity's sake this prefix will not be used in the remainder of this report.

Field measurements of temperature, dissolved oxygen, and salinity were taken 1 m above the bottom at each of the 79 stations using a YSI Model 6920 multiparameter water quality monitor. A stainless steel 0.04-m² Ted Young (modified Van Veen) grab was used to take all biology (benthic infaunal) samples and some of the chemistry/toxicity samples. The majority of the chemistry/toxicity samples were taken with a larger 0.1-m² Ted Young grab. Both grabs were coated with Kynar, a Teflon-like substance intended to protect the chemistry samples from contamination from the grab itself. Three replicate grabs were taken for benthic biology at each station and a variable number of grabs were taken in order to obtain sufficient sediment for the chemistry/toxicity samples.

Benthic biology samples were checked for depth of penetration (7 cm was considered acceptable), depth of the apparent redox potential depth (RPD), and sediment color and texture. A rough description of the appearance of the sediment was included in the field notes. After removal of a 2.5-cm core for sediment grain-size analysis, the samples were washed into a bucket, sieved through a 500- μm screen, and fixed in 10% buffered formalin. These samples were later resieved, rinsed with freshwater, and preserved in 80% ethanol. The grain-size core was extruded into a pre-labeled WhirlPac and stored on ice.

Sediment chemistry/toxicity samples were inspected for an undisturbed surface and acceptable penetration depth. Small syringes were inserted into the sediment for extraction of sediment for acid volatile sulfide (AVS) levels. AVS samples were placed in a 2-oz jar that was filled to the top and placed on ice. The top 2–4 cm of sediment was then removed from the grab with a stainless steel spoon or scoop and placed in a large stainless steel pan with a lid. Grab sampling continued until approximately 4 L of sediment had been accumulated. The composited sediment was then stirred with the spoon until it was smooth and large clumps were gone. Sediment subsamples were removed and placed in a 4-oz jar for metals and total organic carbon (TOC) analyses and a 16-oz jar for PCB analysis. Another subsample was removed and put in a WhirlPac for grain-size analysis. The remaining sediment was put into a 1-gal polyethylene container for use in toxicity testing. All samples were packed in ice.

At the end of each day, the benthic biology samples were transferred to an on-site field laboratory that was provided to ENSR for this project by the USACE. The facility is located at the USACE Project Site on Sawyer Street in New Bedford. Samples were held in formalin for no more than 48 hr after collection, at which time they were transferred to 80% ethanol. A technician, who was stationed at the facility for the majority of the time the field team was sampling in the harbor, decanted the formalin from the sample through a 500- μm sieve. The waste formalin was treated as hazardous waste and disposed into the on-site waste treatment facility at the USACE Project Site on Sawyer Street. The benthic samples were resieved with fresh water to remove salt and then preserved in 80% ethanol.

The on-site technician provided a variety of services to the project, including printing out and organizing the field data sheets, transferring the benthic samples from formalin to alcohol, preparing chain-of-custody forms, arranging for pickups of chemistry and toxicity samples by the analytical laboratories, and assisting in the transfer of grain-size and benthic biology samples to the analytical laboratories. In addition, the technician organized the field datasheets that accumulated and began the process of developing the electronic database.

Field data, including measurements taken, station location coordinates, and sample collection information, were transcribed directly into the field logbook and onto field datasheets. The format of the datasheets was based on those used during the 1993 and 1995 surveys. Electronic files of these sheets were provided by the EPA and printed by ENSR in the field laboratory. If errors were made, results were legibly crossed out, initialed and dated by the person recording the data. Corrections were written in a space adjacent to the original (erroneous) entry. Field data were reviewed by the Chief Scientist, Mr. Don Boyé, to ensure that records were complete, accurate, and legible. At the same time, the Chief Scientist verified that the instruments were calibrated and operated in accordance with the procedures specified in the QAPP. Any deviation from these procedures were reported to the Project Manager, Dr. James Blake, and discussed with Ms. McGrath the QA Officer. Data were entered from the field records into the database in order to establish electronic versions of the field hard copies. These were reviewed and approved by the Chief Scientist and QA Officer prior to release.

2.3 Laboratory Methods

2.3.1 Chemical Analyses

Table 1 summarizes the analytical methods used. PCB analysis was performed by Arthur D. Little, Inc. in Cambridge, Massachusetts. The EPA Environmental Research Laboratory Narragansett (ERLN), Standard Operating Procedure (SOP) *The Extraction of New Bedford Harbor Sediment Samples for PCBs* was used for this study, with modifications as stated in the QAPP (ENSR, 1999). The methods used to generate PCB data were specified by EPA/AED and are consistent with historical efforts to ensure data comparability. The 18 NOAA congeners were quantified using GC/ECD instrumentation.

Analyses of metals, TOC, and AVS were performed by Woods Hole Group in Raynham, Massachusetts. Extraction of metals samples was conducted using the ERLN SOP *Ultrasonic Extraction of Metals from Sediment Samples*, as modified in the QAPP (ENSR, 1999). The ERLN SOP for total digestion of sediment samples was not used, per discussions with EPA/AED. The methods for analyzing metals specified by EPA attack organic matter and remove contaminants from particle surfaces but do not completely dissolve the sediment matrix. For this reason, the resulting data do not represent "total" concentration values but rather represent the maximum bioavailable fraction.

Table 1. Laboratory Methods Used for Chemical Analyses of Samples Collected for the 1999 New Bedford Harbor LTM III Survey.

| Analyte Group ¹ | Laboratory SOP No. | Equivalent EPA Method No. ² |
|-----------------------------|--|---|
| PCBs | ADL-2819 (extraction) ³ ADL-2818 (analysis) | SW-846 3550A/3610/3660/3665 (EPA, 1986) SW-846 8082, modified (EPA, 1986) |
| Metals (Cu, Cr, Pb, Ni, Zn) | NA (digestion) | ERLN SOP <i>Ultrasonic Extraction of Metals from Sediment Samples</i> (see QAPP, Section 7.2.1 for modifications) |
| | WHG SOP 6010B ICP (analysis) | SW-846 6010B (EPA, 1986) |
| Metals (As, Cd, Se) | NA (digestion) | ERLN SOP <i>Ultrasonic Extraction of Metals from Sediment Samples</i> (see QAPP, Section 7.2.1 for modifications) |
| | WHG SOP 6020 ICP-MS (analysis) | SW-846 6020 (EPA, 1986) |
| Mercury | WHG SOP 7471 (preparation and analysis) | SW-846 7471A (EPA, 1986) |
| TOC | WHG SOP TOC 9060 Mod. for Soil/Sediment (preparation and analysis) | SW-846 9060, modified (EPA, 1986) |
| Percent Solids | NA | SM 2540G (APHA-AWWA-WPCF, 1992) |
| AVS | WHG SOP AVSSEM (preparation and analysis) | Boothman and Helmstetter, 1992 |

¹See QAPP Section 1 for the compounds in each analyte group.
²References: see QAPP Section 15.
³Based on the ERLN SOP *The Extraction of New Bedford Harbor Sediment Samples for PCBs*. See QAPP for modifications.
NA indicates that the EPA method was used; ADL is Arthur D. Little, Inc; WHG is the Woods Hole Group.

One common model used to assess bioavailable metals in anoxic sediments is to examine sulfide (FeS) mineralogy (an effective metal-binding mineral) with respect to simultaneously extracted metals (Di Toro et al. 1992). The approach taken to assess this parameter measures AVS and simultaneously extracted metals. AVS measurements were within the scope of this project; however, simultaneously extracted metals were not.

2.3.2 Physical Analyses

Grain size analysis was performed by Geo/Plan Associates in Hingham, Massachusetts. Sediment grain-size was determined for sands using wet sieve analysis (NOAA, 1993) and for silt and clay using pipette analysis (NOAA, 1993; Head, 1992). Wet sieving yields percentages of the following phi-classes: gravel (>2.00 mm), very coarse sand (1.00-2.00 mm), coarse sand (0.50-1.00 mm), medium sand (0.25-0.50 mm), fine sand (0.125-0.25 mm), very fine sand (0.0625-0.125 mm), and silt-and-clay (<0.0625 mm). Pipette analysis results in percentages of silt (0.0039-0.0625 mm) and clay (<0.0039 mm).

2.3.3 Toxicity Testing

Ten-day acute exposure solid phase (sediment) toxicity tests with the amphipod *Ampelisca abdita* were performed by EnviroSystems, Inc. (ESI) in Hampton, New Hampshire. After log-in, toxicity sediment samples were placed in a secure refrigerator and stored at a temperature of 2-4°C until test initiation.

Control sediment used in the amphipod toxicity testing program was provided by EPA ERLN. The control sediment (designated CLIS Ref) was collected at the reference site for the Central Long Island Sound (CLIS) Disposal Site. Control sediment samples were received at ESI on September 16, October 11, and October 20, 1999. No written documentation was provided with the samples; however, ERLN staff verbally confirmed that sediment was collected from the Reference Area adjacent to the CLIS dredge spoil disposal site and that sediments had been pressure-sieved using a 2-mm mesh. Three gallons of sediment arrived in polyethylene jars and two gallons of sediment arrived in glass jars. Overlying water used in the testing was natural seawater collected by ESI from the Hampton/Seabrook Estuary. This water is classified as SA-1 and has been used to culture and test marine test organisms since 1991.

The testing was conducted in six series with a total of 79 New Bedford Harbor sediments during October to December 1999 (Table 2).

Table 2. New Bedford Harbor Sediment Collection and Test Series Dates.

| Bioassay Number | Dates Collected | Date Test Started | Sediment Sample (Station) Numbers |
|-----------------|-----------------|-------------------|--|
| 1 | 09/15–20/99 | 10/08/99 | 235, 236, 240, 241, 242, 245, 247, 249, 250, 304, 305, 310, 311, 331, 349, 352 |
| 2 | 09/21–24/99 | 10/09/99 | 204, 207, 208, 211, 212, 216, 217, 220, 222, 224, 225, 226, 227, 230, 231, 253 |
| 3 | 09/24–29/99 | 10/24/99 | 123, 125, 126, 128, 131, 139, 147, 150, 151, 152, 154, 155, 221, 237 |
| 4 | 10/01–10/99 | 10/26/99 | 105, 111, 114, 115, 130, 134, 135, 138, 140, 146, 318, 325, 335, 339, 341 |
| 5 | 10/06–08/99 | 10/29/99 | 108, 109, 202, 309, 317, 323, 324, 332, 333, 334, 338, 340, 345, 346 |
| 6 | 10/27–11/18/99 | 11/23/99 | 117, 120, 121, 218 |

The testing protocol was based on methods and procedures presented in *Standard Operating Procedure for Conducting Acute Toxicity Testing using Ampelisca abdita* (EPA, 1990), *Laboratory Method Manual - Estuaries Volume 1: Biological and Physical Analyses* (EPA, 1993), and *Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods* (EPA, 1994). Details of the protocols are included in the QAPP (ENSR, 1999), but in general were as follows:

-
- Assays were conducted using a static renewal test mode using five (5) replicates per treatment with 20 organisms per replicate.
 - Test temperatures were $20\pm1^{\circ}\text{C}$ and a salinity of $30\pm2\text{ ppt}$.
 - Temperature, salinity, dissolved oxygen, and pH were monitored daily.
 - Control sediment was from central Long Island Sound.
 - Control survival was equal to or greater than 90%.

Several deviations from the study-specific protocol occurred during the testing program. These included slight exceedence of sample storage temperature criteria in the sediment sample storage refrigerator, deviations in *Ampelisca* holding circumstances, and deviations in temperature and dissolved oxygen levels during testing periods. The nature of the deviations were considered minor and it was the opinion of the ESI Study Director (Ms. Natalie Harris) that they had no impact on the outcome of the test. ENSR concurred in this opinion and is not aware of any additional circumstances or factors that may have affected the integrity of these studies.

Individual reports containing results on each of the test series from the New Bedford Harbor whole sediment testing program were provided by ESI and submitted to USACE and EPA in March 2000. These reports contain summarized test results and statistical comparisons.

2.3.4 Benthic Biology Analysis

Sorting, enumeration, and identification of the animals contained in the benthic biology samples was performed by Normandeau Associates in Bedford, New Hampshire, and by the ENSR Marine & Coastal Center in Woods Hole, Massachusetts. Sample processing generally followed protocols described in *EMAP Near-Coastal Laboratory Procedures Macrofauna Community Assessment* (EPA, 1991), with the exception that biomass determinations were not made. All organisms were removed from the sediment residue and identified to the lowest possible taxon, usually species. Both laboratories exchanged information and specimens as part of an intercalibration exercise intended to ensure comparable identifications by both laboratories and to provide the most taxonomically correct species list possible.

3.0 RESULTS

3.1 Water Quality

The water quality data taken by CTD casts 1 m above each station sampled in the 1999 NBH program are given in Appendix 2.

3.2 Sediment Characterization

3.2.1 Grain Size

Sediment grain size composition was measured for four to six replicate samples at each station in each of the three segments of NBH. Details of these analyses are presented in Appendix 3; mean values of percent gravel, sand, and silt+clay are shown in Figures 2 and 3. Sediments in Segment 1, the Upper Harbor, had the highest percentages of silt+clay, and Segment 3, the Outer Harbor, had the lowest percentages of this size class. There was a general trend towards coarser sediments from the Upper through the Lower and into the Outer Harbor areas.

3.2.2 Total Organic Carbon

The total organic carbon (TOC) found in the sediments generally paralleled the trend of percent silt+clay: TOC was typically highest at stations where the silt+clay was also highest (Figures 4 and 5). In Segment 1 (Upper Harbor), the highest average values of TOC were 10.0, 10.1, and 10.0 % at Stations 108, 114, and 138, respectively; at these same stations, the percent silt+clay was 70.5, 76.0, and 74.4, respectively. The majority (15 of 27 replicates) of values ranged from 6.1 to 8.5, and were found primarily at stations in the central portion of Segment 1. Stations at the southern end of this segment (Stations 140–155) had the lowest TOC values of 0.52–5.5%. TOC values found at stations in Segment 2 (Lower Harbor) ranged from a high of 9.2% at Station 231 to a low of 0.16 at Station 202. The majority (17 of 30 replicates) of values ranged from 3.0 to 5.5%, and were found scattered throughout the segment, with no apparent north-to-south trend as seen in Segment 1. The lowest TOC values measured were found in Segment 3 (Outer Harbor); values ranged from a low of 0.04% at Station 306 to a high of 3.3% at neighboring Station 309. Nine of the 23 stations had TOC values of less than 1%; these stations were found throughout the segment, with no apparent north-to-south trend. Appendix 4 includes the sediment TOC data developed for samples taken in NBH in 1999.

Figure 2. Sediment Composition: Top, Upper Harbor; Bottom, Lower Harbor.

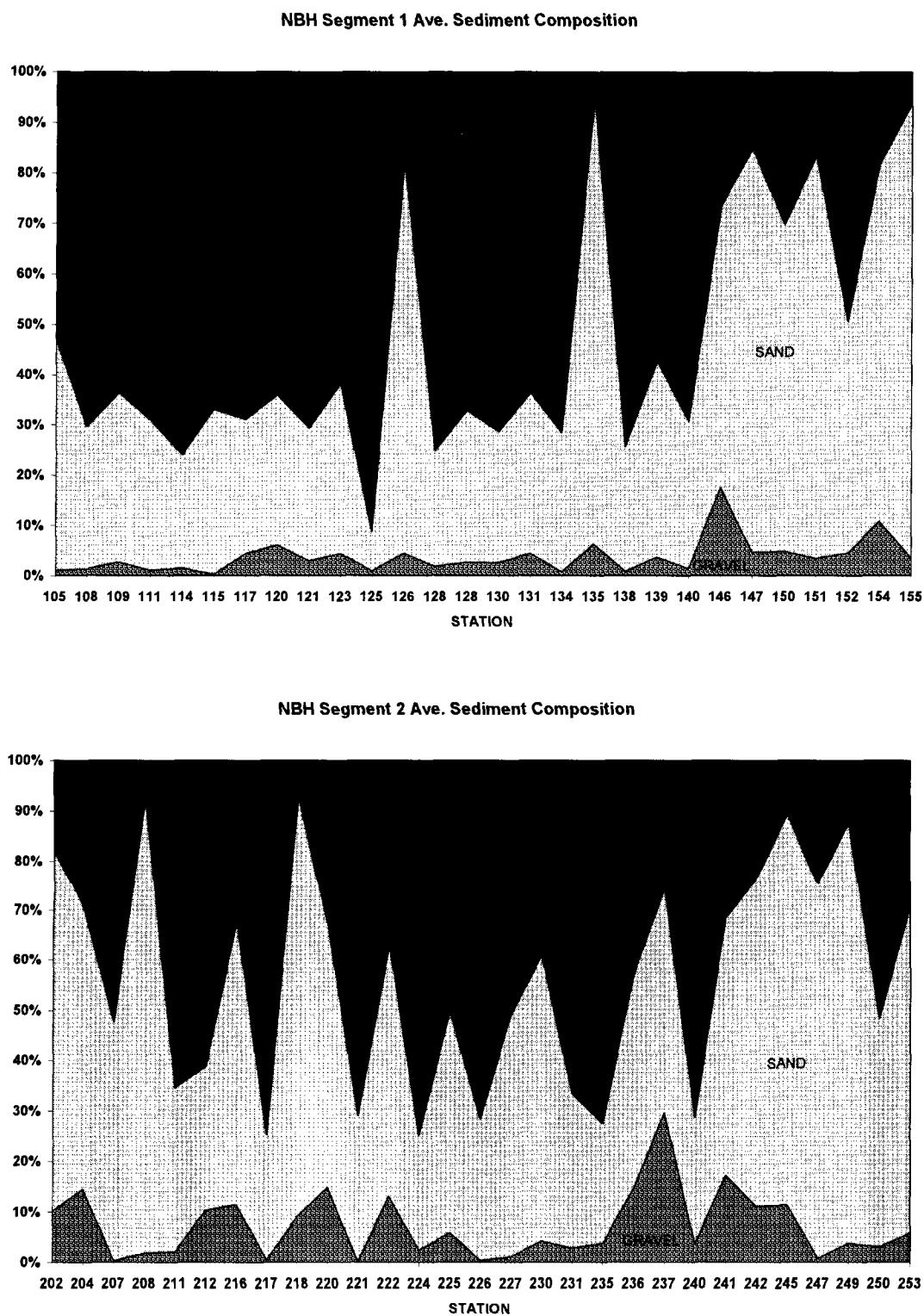


Figure 3. Sediment Composition: Outer Harbor.

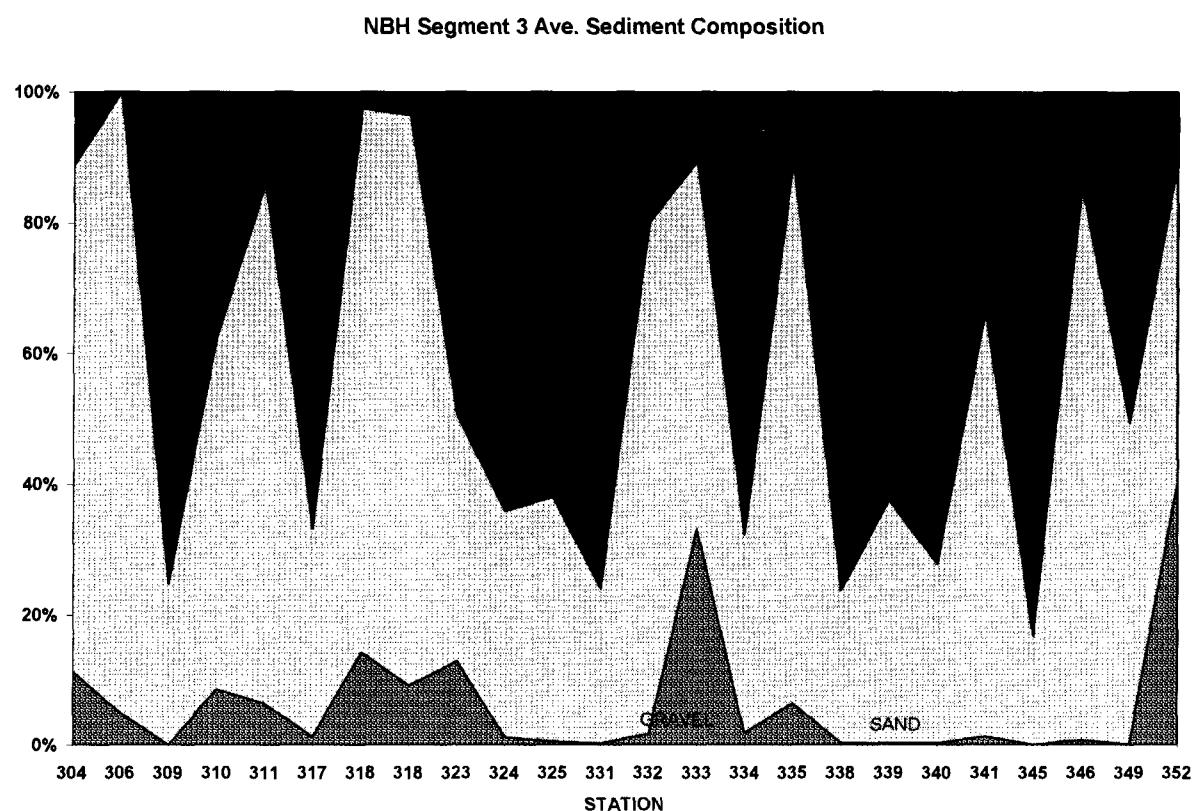


Figure 4. Total Organic Carbon: Top, Upper Harbor; Bottom, Lower Harbor.

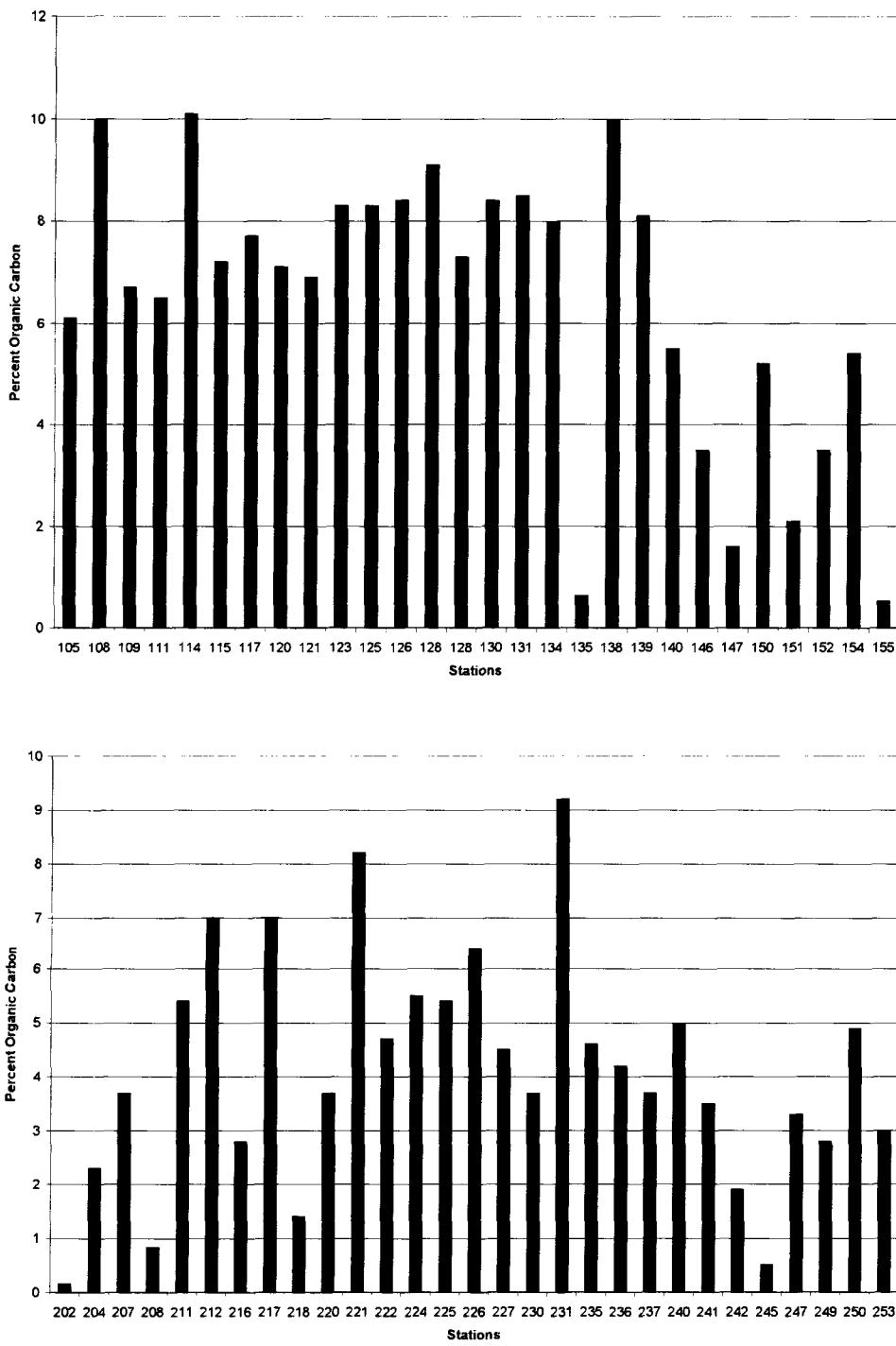
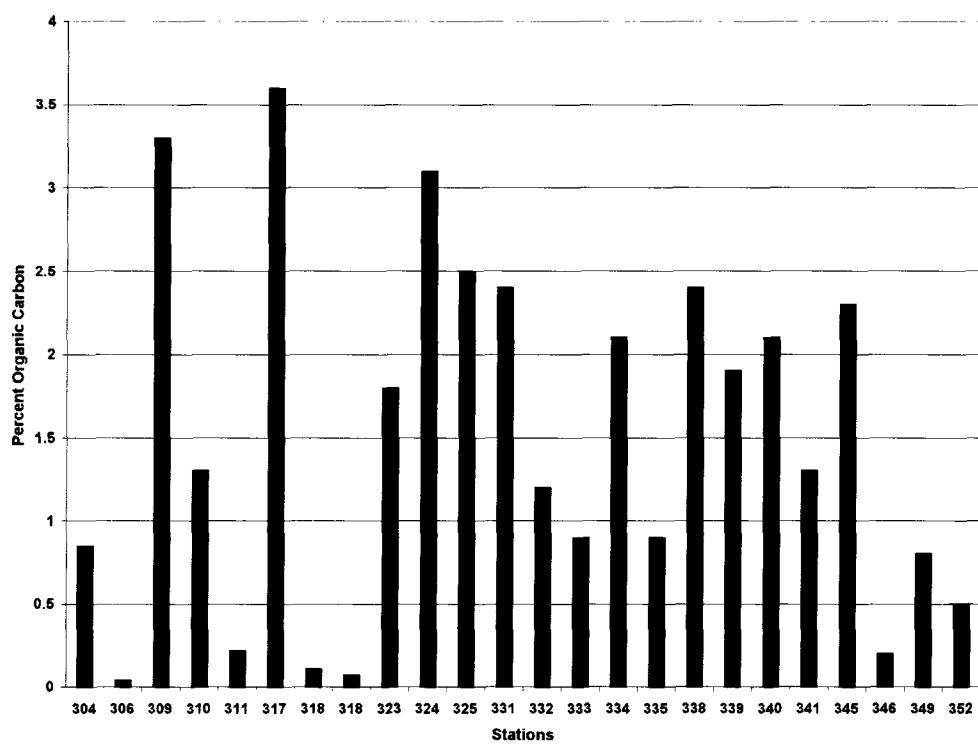


Figure 5. Total Organic Carbon Concentration for Outer Harbor Stations.



3.3 Contaminant Chemistry

3.3.1 PCBs

Figures 6 and 7 summarize the data obtained from the 1999 field collection effort. Only the 18 NOAA congeners have been measured in the program and these figures summarize the total of the 18 congeners for consistency with the previous two LTM reports. Readers are advised that the summations depicted in these figures and in Appendix 5 are not equivalent to total arochlor or homologue PCB's.

As depicted in both figures, total PCB concentrations (as the sum of the 18 NOAA congeners) in the Upper, Lower, and Outer Harbor areas differ dramatically. Concentrations at one-third of the stations in the Upper Harbor were greater than 100 ug/g. Concentrations at Upper Harbor stations are one order of magnitude higher than those encountered at stations in the Lower Harbor, and two orders of magnitude higher than those at stations in the Outer Harbor. In the Lower Harbor sediments, the sum of these 18 NOAA congeners were within the 2–20 ug/g concentration range, and those at the majority of stations in the Outer Harbor were less than 1 ug/g. Appendix 5 includes the details of the total PCBs and the individual 18 NOAA congeners found in the NBH 1999 samples.

3.3.2 Metals

Of the metal parameters measured in the program, cadmium (Figure 8), copper (Figures 9 and 10), and lead were the most elevated above background levels (data are presented in Appendix 6). Sediment-bound cadmium concentrations ranged from 5 to 20 ug/g in the Upper Harbor, 1–5 ug/g at stations in the Lower Harbor, and 1 ug/g or less in the Outer Harbor as summarized in Figure 8. Copper concentrations were relatively high—in the range of 100 to 1,000 ug/g—in both the Upper and Lower Harbor areas (Figures 9 and 10). The highest copper concentration measured in the program was at Station 207 (5,060 ug/g) in the Lower Harbor. Copper at this single station was higher by a factor of 3–4 than at any other station. Concentrations at stations in the Outer Harbor generally ranged from 2–60 ug/g, and are probably not much different from background concentrations as estimated from global mean sediment values (Bowen, 1979). Sedimentary lead concentrations were typically 200–500 ug/g in the Upper Harbor, 100–300 ug/g in the Lower Harbor, and with few exceptions, less than 30 ug/g in the Outer Harbor (Figure 11).

3.3.3 Acid Volatile Sulfides

Detailed results of this analysis are in Appendix 7. Metal-binding sulfide concentrations diminished from Upper and Lower Harbor stations to those in the Outer Harbor. However, simultaneously extracted metals were not measured as part of this project; therefore metal bioavailability assessments cannot be made.

Figure 6. Total PCB's as the Sum of NOAA 18 Congeners at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

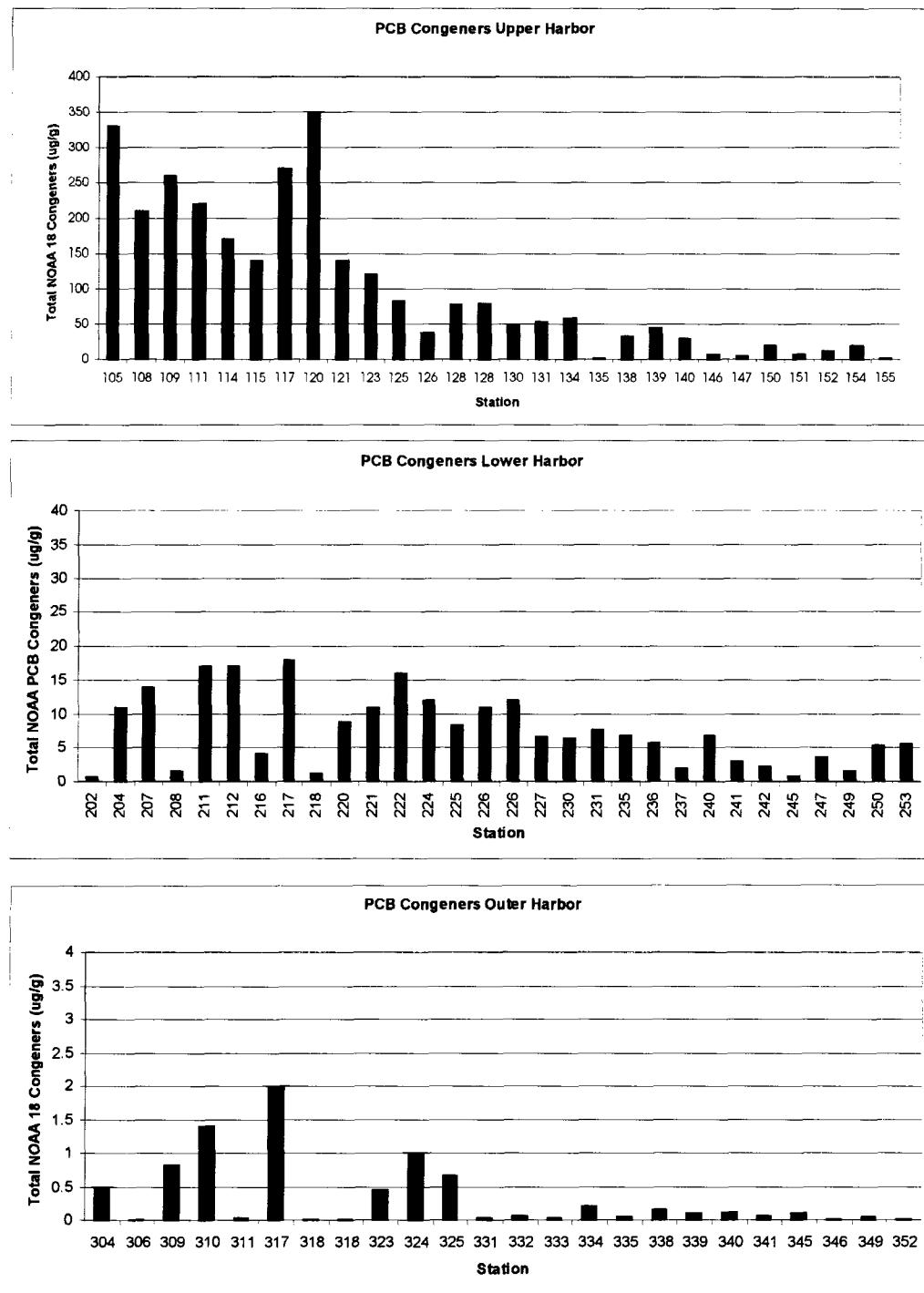


Figure 7. Map Showing Concentrations of PCBs in New Bedford Harbor in 1999.

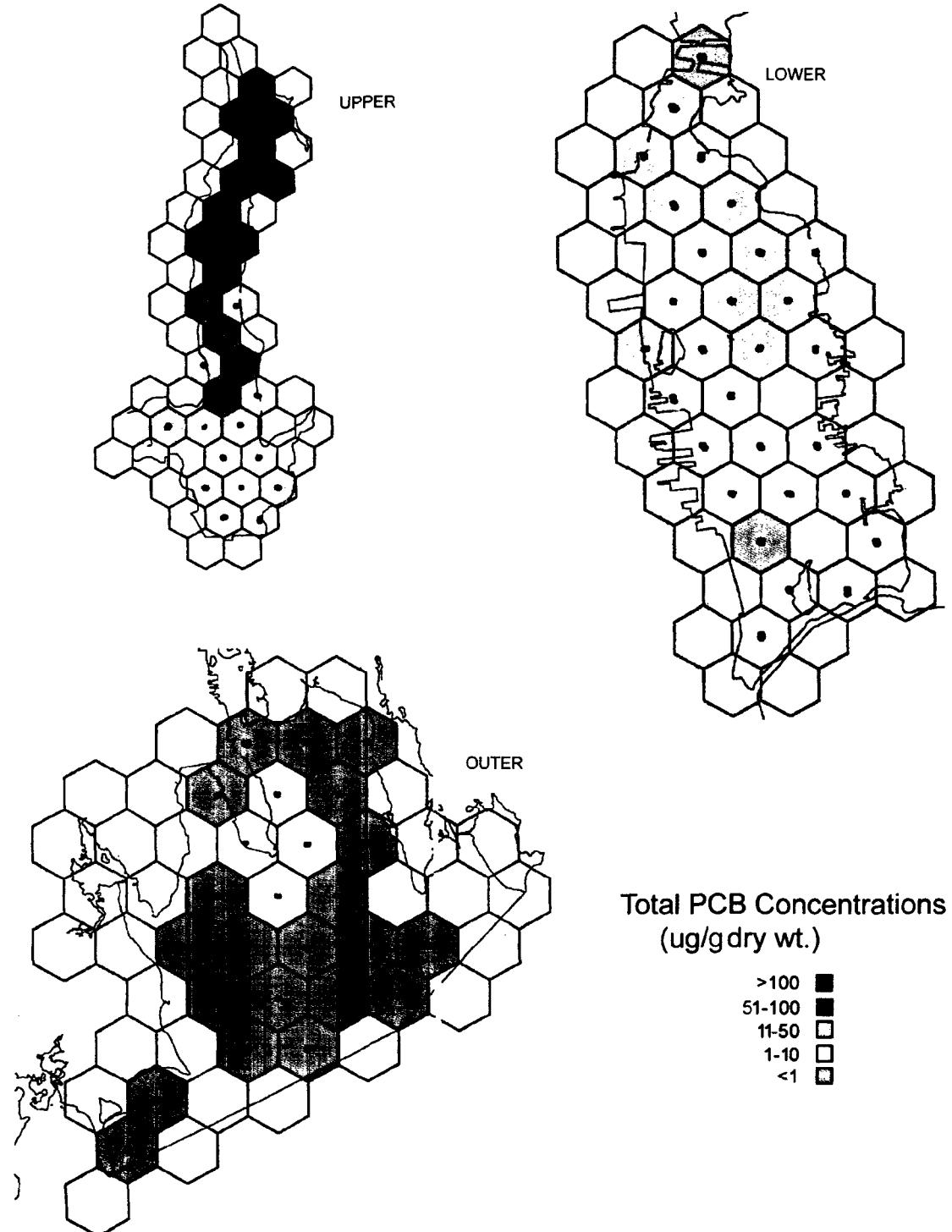


Figure 8. Cadmium Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

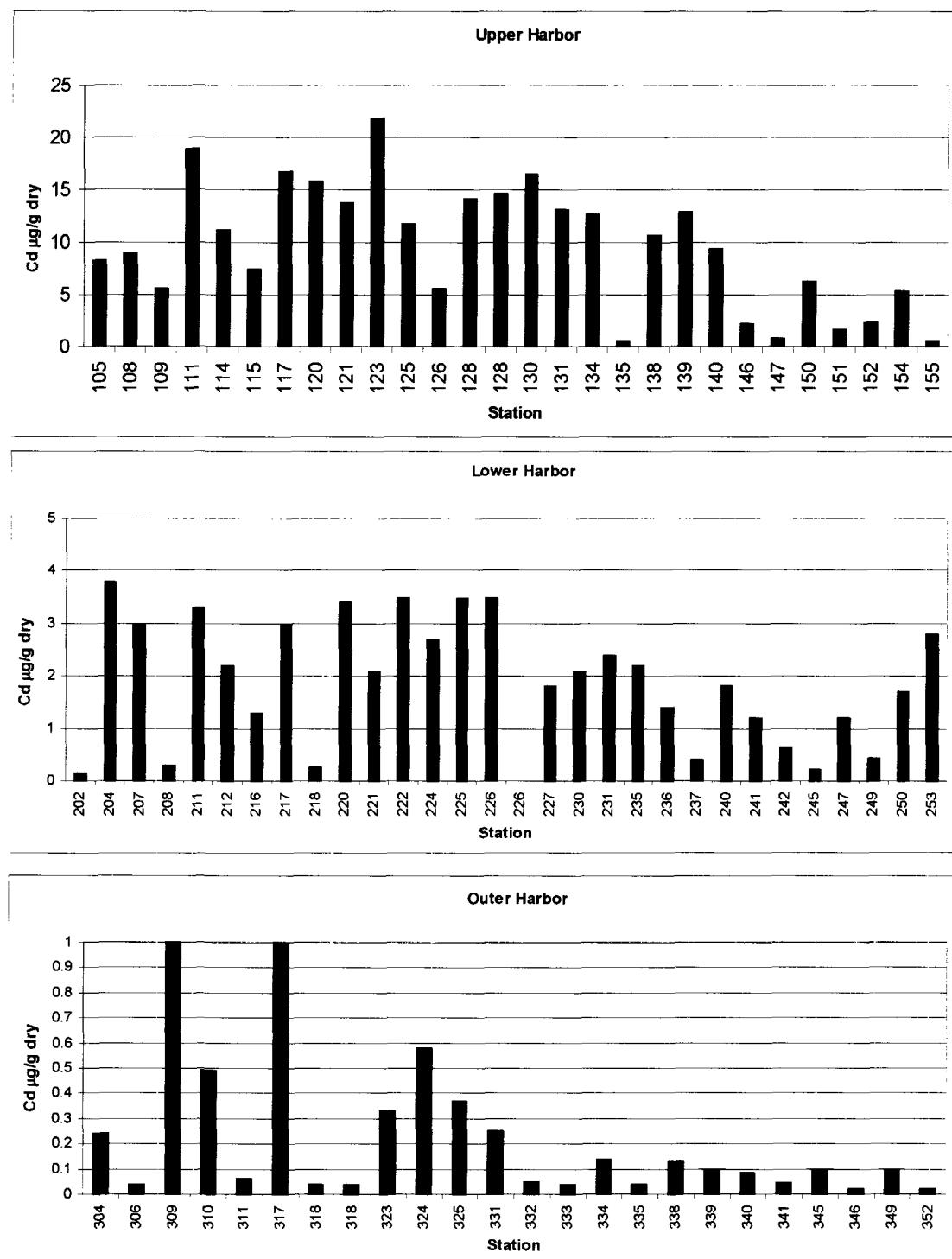


Figure 9. Copper Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.

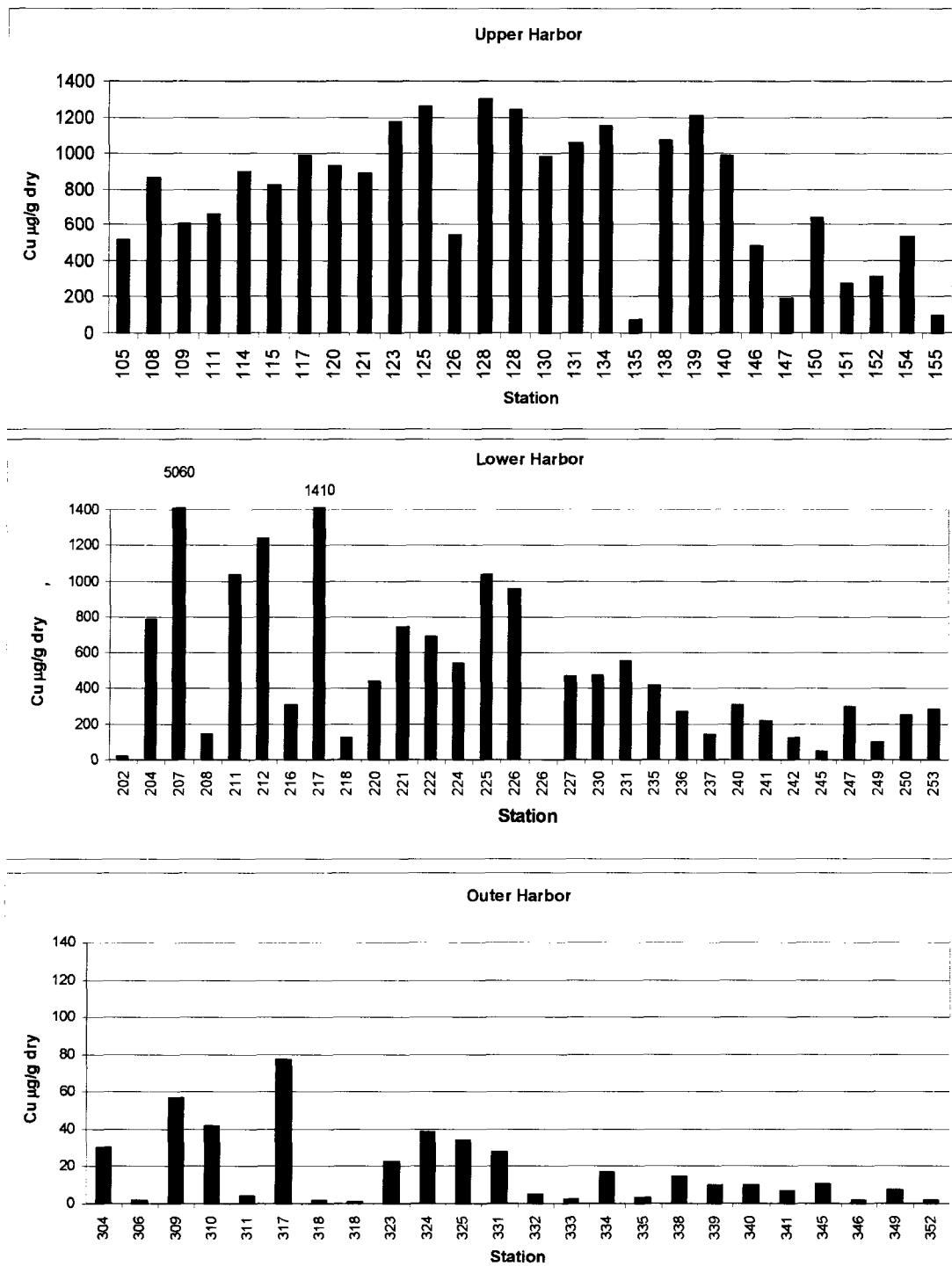


Figure 10. Map Showing Concentrations of Copper in New Bedford Harbor Sediments in 1999.

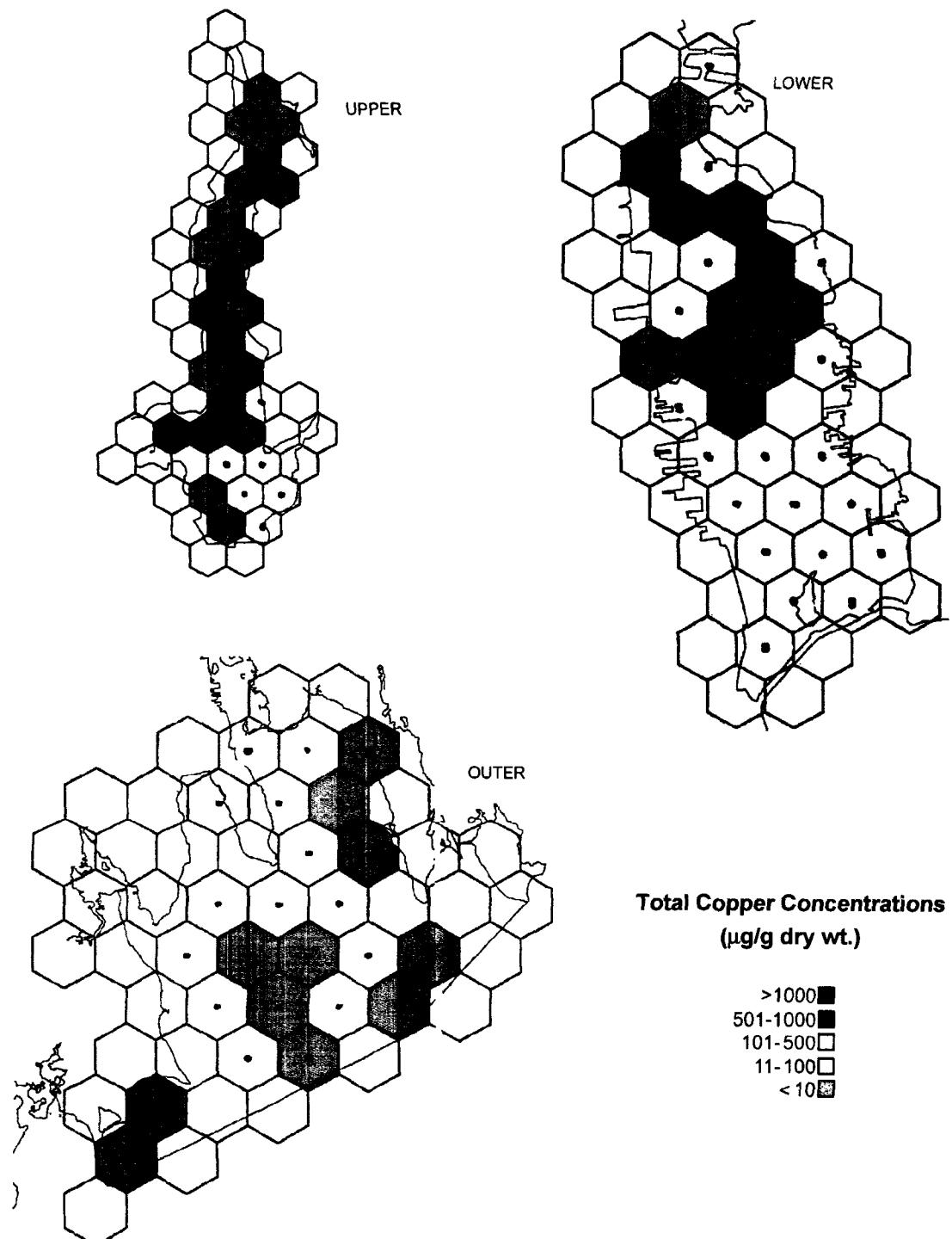
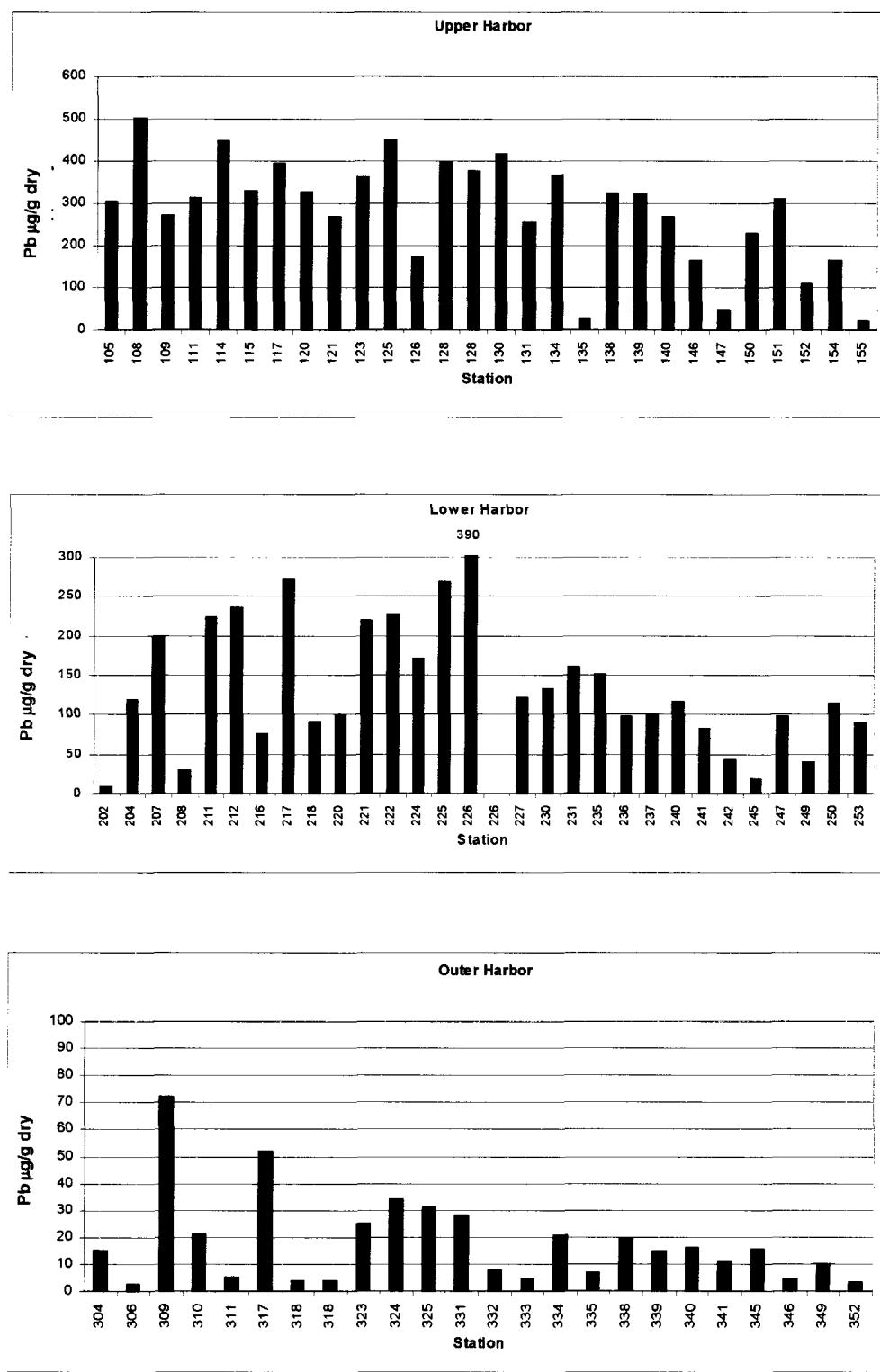


Figure 11. Lead Concentrations at New Bedford's Upper, Lower, and Outer Harbors. 0-4 cm Sediment Surface.



3.3.4 Sediment Toxicity

The amphipod 10-day survival responses for the entire NBH baseline evaluation are summarized in Appendix 8. Survival of organisms exposed to the NBH test sediment samples ranged from 0 to 90%. When normalized to the CLIS reference sample, amphipod survival was statistically significantly lower for 68 of the 79 sediments tested. The results showed strong spatial patterns; therefore, the discussion of the results has been organized according to NBH Segments 1 (Upper Harbor), 2 (Lower Harbor), and 3 (Outer Harbor).

3.3.5 Segment 1 (Upper Harbor)

Amphipod survival was assessed using 10-day whole sediment toxicity tests for 27 test sediments (Stations 105 to 155) located in NBH Segment 1 (Upper Harbor). On the whole, these sediments were extremely toxic, with 23 of the 27 sediments tested resulting in complete mortality (i.e., 0% survival). Survival in all 27 sediment tests was statistically significantly lower than in the corresponding CLIS control sediments. For the four test sediments without complete mortality, test organism survival ranged from a high of 25% (Station 135) to 1% (Station 155). Due to the widespread mortality, it is hard to distinguish spatial patterns of toxicity among the stations in the Upper Harbor. However, it was noted that all the sediments that had survival of some exposed organisms (i.e., <100% mortality) (Stations 135, 147, 152, 155) were all located along the eastern margin of Segment 1 near the southern (seaward) end.

3.3.6 Segment 2 (Lower Harbor)

Twenty-nine stations were tested in NBH Segment 2 (Lower Harbor). Mean amphipod survival for test sediments was very variable in this segment, ranging from 0 to 78%. Amphipod survival in all 29 sediment tests was statistically significantly lower than in the CLIS control sediments. Ten of the test sediments had organism survival below 25%, and, of these, three sediments (Stations 204, 207, 230) resulted in 100% mortality. Ten sediments had organism survival between 25 and 50%, seven (duplicates from Station 226 were averaged) were from 50 to 60%, and only two sediments had greater than 60% survival (Figure 12). Examination of the spatial pattern of toxicity results indicates that the most toxic sediments were located in the northern half of this segment and toxicity decreases southward. Some exceptions to this pattern were Stations 202, 222, 226, and 231, which were less toxic than would be expected based on their location. The reasons for this decreased toxicity are not known, but scour/erosional effects or distance offshore may be involved. For example, Station 202 is located at the constricting channel between the Upper and Lower Harbors in an area likely to be subject to high-velocity riverine and intertidal flows, and the sediment may be less depositional than at other locations. Alternatively, Stations 222, 226, and 231 are more centrally located, away from docks, wharves, and localized inputs. Additional information regarding the chemistry of the sediments should be considered to explain these differences.

3.3.7 Segment 3 (Outer Harbor)

Twenty-three stations were tested in NBH Segment 3 (Outer Harbor). Mean survival of amphipods exposed to test sediments from this segment was clearly the highest of the three harbor areas, with survival ranging from 24 to 90%. The majority of the sediments exhibited amphipod survival greater than 80% (Figure 12). Of the 23 sediment tests, survival in 12 was statistically significantly lower than in the CLIS control sediments. None of the test sediments exhibited 100% amphipod mortality. One of the test sediments had organism survival below 25% (Station 304), one was 25 to 50% (Station 310), and nine were between 50 and 80%. The spatial pattern of toxicity shows a gradient of decreasing toxicity with distance from the mouth of New Bedford Harbor (Figure 12). The four samples that demonstrated the most toxicity are among the five sediment samples at the northern end of Segment 3 (Stations 304, 306, 310, 311). Interestingly, the fifth sediment (Station 309) in the northern end had the highest organism survival (90%) of any New Bedford Harbor sediment tested. Starting with the line formed by sediment Stations 317 to 318 (see Figure 1), most of the sediments do not statistically differ from the CLIS control sediments, and those that are significantly different show minimal toxicity (e.g., 75–79% survival). Slight exceptions to this statement include Station 318 (65% survival) and Station 352 (66% survival). Overall, the results of the toxicity tests on sediments from Segment 3 indicate that the factors likely responsible for the toxicity seen in the Upper and Lower Harbors rapidly diminish with distance from these sources.

3.4 Benthic Fauna

The database generated for this project contained a number of taxa that are not considered in the following discussion. A few taxa, including epifaunal, clinging, or boring organisms such as *Crepidula*, *Mytilus*, *Crassostrea*, certain polydorid polychaetes, and caprellid amphipods, are not considered true constituents of the infaunal community, and are therefore excluded from any characterization of the community. These taxa are marked with an asterisk in the species list presented in Appendix 9. In addition, when juvenile or damaged specimens could not be identified to species, the category “spp.” was used. If no species were identified in the genus to which these specimens belong, then the taxon is included in discussions of both density and diversity and is included in the species list (Appendix 9). If species were identified (and especially if more than one species was identified) in the genus, then the taxon was considered as contributing to the total density of infaunal organisms, but was not included in discussions of species richness or diversity nor in the species list (Appendix 9). Oligochaetes were not identified to species, but are an important component of the fauna and are therefore included in both density and diversity measurements. Appendix 10 contains the benthic data developed for NBH samples taken in 1999.

Figure 12. Map Showing Percent Survival of *Ampelisca abdita* in Toxicity Tests of New Bedford Harbor Sediments in 1999.

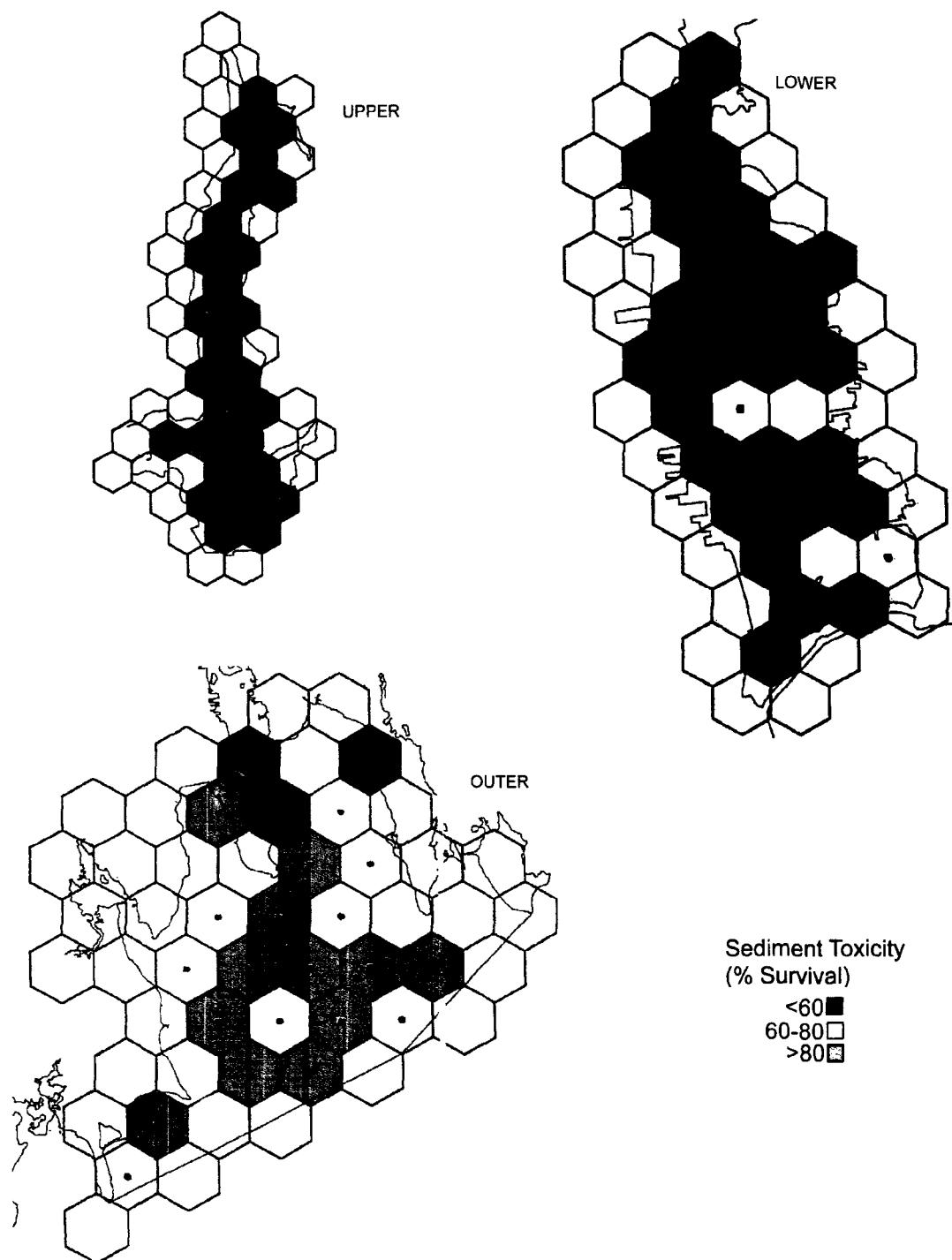


Table 3 shows the number of valid taxa and total density in each of the three areas sampled. Overall, the Lower Harbor had only 70% of the density but twice as many species as the Upper Harbor, and the Outer Harbor had approximately half the density but twice as many species as the Lower Harbor (Figure 13).

Table 3. Number of Species and Total Density in the Three Areas of New Bedford Harbor.

| | Segment 1 Upper Harbor | Segment 2 Lower Harbor | Segment 3 Outer Harbor |
|-------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Number of species | 48 | 105 | 213 |
| Total density | 75,201 | 53,131 | 27,092 |

3.4.1 Segment 1 (Upper Harbor)

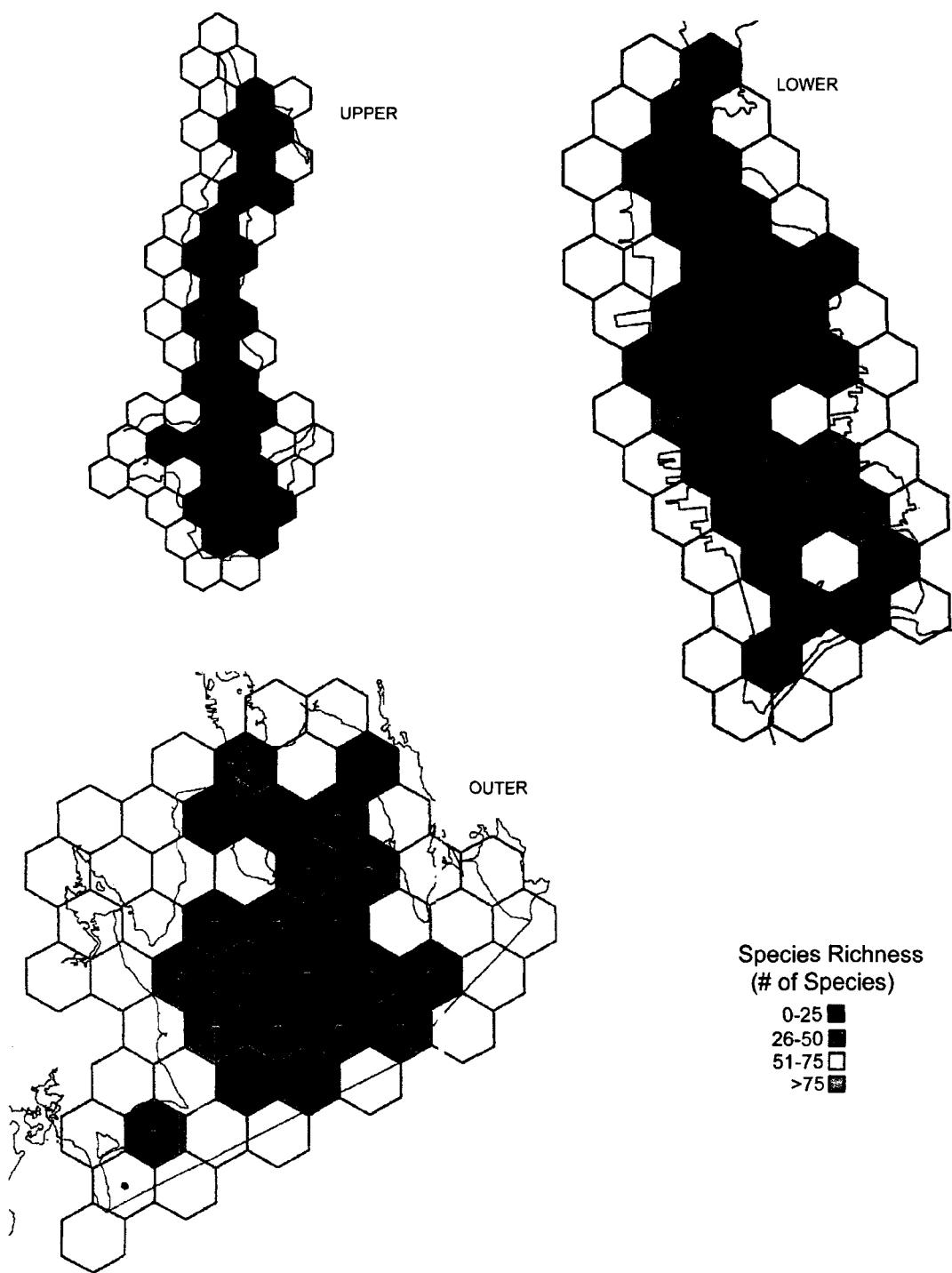
Stations in Segment 1 were characterized by low species diversity (as measured by number of taxa) and high densities, particularly of the dominant organisms. Table 4 shows the top dominant species and their total density in all Segment 1 replicates combined. Three bivalves (B), four polychaetes (P), two gastropods (G), and oligochaetes constitute the top dominants.

Table 4. Dominant Species in NBH Segment 1 (Upper Harbor).

| Species | Total Density | Cum. Percent |
|-------------------------------------|----------------------|---------------------|
| 1. <i>Gemma gemma</i> (B) | 34,725 | 46.2 |
| 2. <i>Streblospio benedicti</i> (P) | 17,670 | 69.7 |
| 3. <i>Mulinia lateralis</i> (B) | 7,479 | 79.6 |
| 4. <i>Hydrobia truncata</i> (G) | 6,624 | 88.4 |
| 5. Oligochaeta | 3,003 | 92.4 |
| 6. <i>Eteone heteropoda</i> (P) | 1,974 | 95.0 |
| 7. <i>Tharyx acutus</i> (P) | 833 | 96.1 |
| 8. <i>Mercenaria mercenaria</i> (B) | 444 | 96.7 |
| 9. <i>Ilyanassa obsoleta</i> (G) | 382 | 97.2 |
| 10. <i>Polydora cornuta</i> (P) | 334 | 97.6 |

The bivalve *Gemma gemma* accounted for nearly half of all organisms collected at Segment 1 stations and was most abundant at Stations 117, 120, and 121. Another bivalve, *Mulinia lateralis*, replaced *G. gemma* at the outer stations, especially Stations 123–140. The polychaete *Streblospio benedicti* occurred in every replicate, in abundances ranging from a low of 28 individuals at Station 117/3 to a high of 1496 at Station 130/1. The gastropod *Hydrobia truncata*

Figure 13. Map Showing Total Number of Species Identified from New Bedford Harbor Sediments as Part of 1999 Survey.



had a similarly patchy distribution, occurring in densities ranging from less than 10 (e.g., Stations 108, 114, 126) to 100s (e.g., Stations 105, 115) to 1000s (e.g., Station 109, 111). Oligochaetes were found in every replicate except 115/3 and both replicates from Station 152. *Eteone heteropoda*, a predatory polychaete, was found in low numbers in every replicate, except replicate 152/1 (where it did not occur.)

3.4.2 Segment 2 (Lower Harbor)

Stations in Segment 2 were characterized by intermediate species diversity (as measured by number of taxa) and intermediate densities. Table 5 shows the top dominant species and their total density in all Segment 2 replicates combined. Three bivalves (B), six polychaetes (P), and oligochaetes constitute the top dominants.

Table 5. Dominant Species in NBH Segment 2 (Lower Harbor).

| Species | Total Density | Cum. Percent |
|---------------------------------------|---------------|--------------|
| 1. <i>Mulinia lateralis</i> (B) | 21,374 | 40.2 |
| 2. <i>Streblospio benedicti</i> (P) | 7,932 | 55.1 |
| 3. <i>Tharyx acutus</i> (P) | 4,999 | 64.5 |
| 4. <i>Mercenaria mercenaria</i> (B) | 3,823 | 71.7 |
| 5. <i>Mediomastus ambiseta</i> (P) | 3,097 | 81.8 |
| 6. Oligochaeta | 2,278 | 84.7 |
| 7. <i>Pectinaria gouldii</i> (P) | 1,544 | 86.5 |
| 8. <i>Leitoscoloplos robustus</i> (P) | 983 | 88.1 |
| 9. <i>Macoma tenta</i> (B) | 854 | 89.3 |
| 10. <i>Polydora cornuta</i> (P) | 630 | 90.3 |

The polychaete *S. benedicti* was the second most dominant organism at Segment 2 stations as it was at Segment 1 stations, but with half the number of individuals. Another polychaete, *Polydora cornuta*, ranked tenth in both segments, but had twice the number of individuals in Segment 2 as in Segment 1. *M. lateralis* and *Tharyx acutus* occurred in substantially higher densities in Segment 2 than in Segment 1.

3.4.3 Segment 3 (Outer Harbor)

Stations in Segment 3 were characterized by the highest species diversity (as measured by number of taxa) and the lowest densities of all three Segments. Table 6 shows the top dominant species and their total density in all Segment 3 replicates combined. Three bivalves (B), four polychaetes (P), two gastropods (G), and oligochaetes constitute the top dominants.

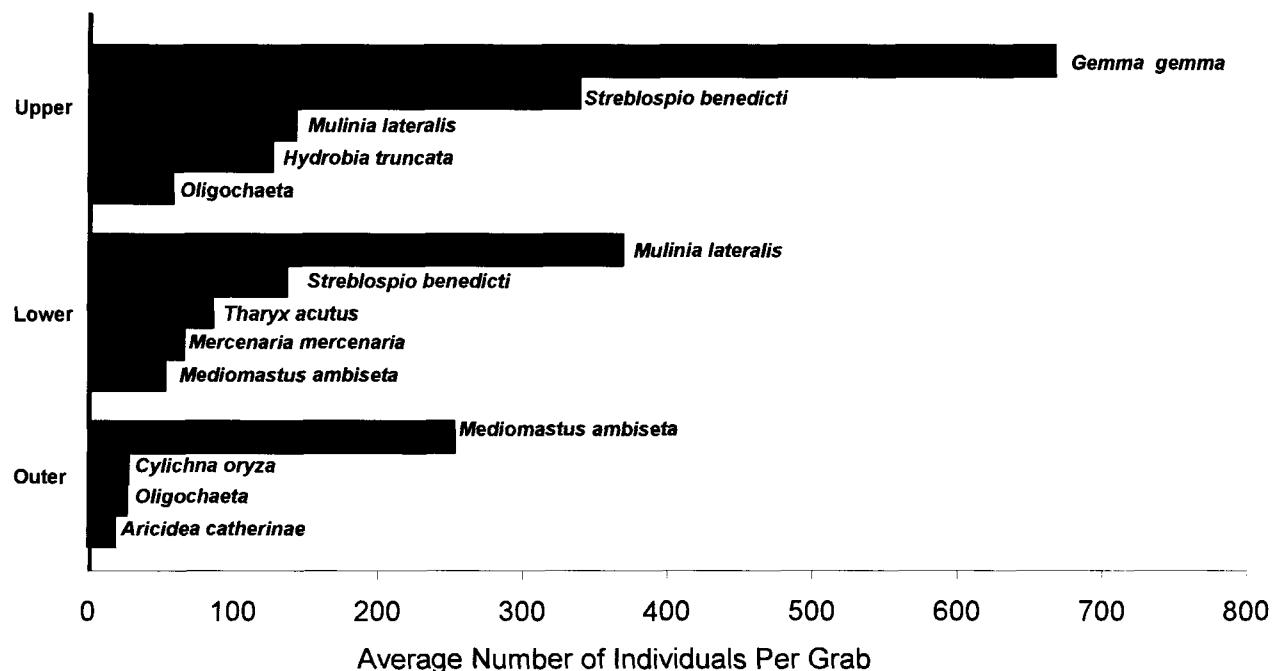
Table 6. Dominant Species in NBH Segment 3 (Outer Harbor).

| Species | Total Density | Cum. Percent |
|--------------------------------------|---------------|--------------|
| 1. <i>Mediomastus ambiseta</i> (P) | 11,625 | 42.9 |
| 2. <i>Cylichna oryzia</i> (G) | 1,309 | 47.7 |
| 3. Oligochaeta | 1,225 | 52.2 |
| 4. <i>Aricidea catherinae</i> (P) | 886 | 55.5 |
| 5. <i>Nucula annulata</i> (B) | 858 | 58.7 |
| 6. <i>Prionospio perkinsi</i> (P) | 767 | 61.5 |
| 7. <i>Mulinia lateralis</i> (B) | 719 | 64.1 |
| 8. <i>Polygordius</i> sp. A (P) | 673 | 66.6 |
| 9. <i>Acteocena canaliculata</i> (G) | 661 | 69.0 |
| 10. <i>Macoma tenta</i> (B) | 641 | 71.4 |

Mediomastus ambiseta had a patchy distribution, sometimes occurring in numbers as high as 700–900 ind./m² in one replicate of a station (e.g., Stations 323, 332, 334, 341, 345) while only tens of individuals were present in the other replicate. Similarly, it was entirely absent from a few of the stations. Station 352, one of the outermost stations sampled, had an interesting fauna that included several uncommon polychaete species not routinely encountered in estuarine or coastal sampling programs.

A summary graphic shows the top 4 to 5 most abundant species in each of the Harbor segments (see Figure 14).

Figure 14. Dominant Benthic Invertebrate Species in New Bedford harbor in the 1999 Survey



4.0 DISCUSSION AND CONCLUSIONS

Although a detailed comparative analysis of the 1993, 1995, and 1999 results was beyond the scope of this 1999 summary report, we are able to provide comments on the main results. Based on the parameters measured in 1999, there is a definite trend or gradient from the upper reaches of New Bedford Harbor to the stations positioned at the outermost extent of the harbor. This gradient is characterized in Table 7, and can be seen to reflect the toxic conditions in the Upper Harbor, the mixed or intermediate conditions in the Lower Harbor, and the less toxic or cleanest conditions in the Outer Harbor. These results and trends appear to be very similar to those obtained in the previous baseline sampling.

Table 7. Comparison of Parameters Measured in NBH LTM III, Fall 1999.

| Harbor Segment | Sed. Texture | % TOC | Total PCB | Metals | Toxicity | Total AVS | Faunal Densit | Species Richness | Evenness |
|----------------|----------------|-------|-----------|--------|----------|-----------|---------------|------------------|----------|
| Upper | Finest | H | H | H | H | H | H | L | L |
| Lower | Mixed | I | I-L | I | H | I | I | I | I |
| Outer | Mixed, coarser | L | L | L | L | L | L | H | H |

H = Highest, I = Intermediate, L = Lowest

In 1993, total PCB concentrations (as the sum of the 18 NOAA congeners) ranged from a high of 431 µg/g in the Upper Harbor to a low of 0.02 µg/g in the Outer Harbor. In 1999, the highest value recorded was 350 µg/g, again in the Upper Harbor, and the lowest was 0.012 µg/g, in the Outer Harbor. Stations 108, 111, and 114 comprised the so-called "hot spot", from which heavily contaminated sediments having PCB concentrations in excess of 4000 µg/g were removed in 1994 and 1995. In 1999, those same three stations were among a group of eight adjacent stations in the Upper Harbor that had the highest PCB concentrations (Figure 7: Sta. 108: 210 µg/g; 111: 220 µg/g; 114: 170 µg/g).

Total organic carbon in the 1993 samples ranged from a high of 13% in the Upper Harbor to a low of 0.16% in the Outer Harbor; in 1999, the range was 10.1% to 0.03%, also in the same harbor areas. Thus, the highest and lowest values of these parameters were slightly lower in 1999 than in 1993, but the ranges and geographic trends were similar.

These data have not been subjected to statistical tests, but the copper concentrations encountered appear to have increased in some parts of New Bedford Harbor since 1993. The upper and lower ranges for the Upper, Lower, and Outer Harbors for 1993 and 1999 results together with averages for combined stations within each segment for both years are shown in Table 8. This apparent increase of

Cu is most pronounced in the Lower Harbor and may be the result of shoreline commercial and industrial land use and associated marine activities.

Table 8. Comparison of Copper Concentration ($\mu\text{g/g}$ dry wt) Recorded from New Bedford Harbor in 1993 and 1999.

| Harbor Segment/year | Highest Cu Concentration | Lowest Cu Concentration | Average Cu Concentrations |
|---------------------|--------------------------|-------------------------|---------------------------|
| Upper-1993 | 1227 | 25 | 611.7 |
| Upper-1999 | 1270 | 74 | 759.4 |
| Lower-1993 | 2054 | 27 | 454.2 |
| Lower-1999 | 5060 | 17 | 675.7 |
| Outer-1993 | 77.2 | 1.3 | 20.2 |
| Outer-1999 | 77.1 | 1.4 | 32.2 |

Stations 202, 222, 226, and 231 were less toxic than would be expected based on their location. The reasons for this decreased toxicity are not known, especially since there is no similarity in other parameters measured at these stations. Two of these stations (Sta. 202 and 222 had primarily sand and gravel sediments; Station 202 also had low TOC (0.16%) and low total PCBs (0.78 $\mu\text{g/g}$), but Station 222 had somewhat higher TOC (4.7%) and much higher PCBs (16 $\mu\text{g/g}$). The other two stations had primarily fine sediments with high silt+clay (71.2 and 66.6% for Stations 226 and 231, respectively), with higher TOC levels (6.4 and 9.2%, respectively) but intermediate levels of total PCBs (11 and 7.7 $\mu\text{g/g}$, respectively).

The species composition and dominance of the benthic fauna in samples collected in 1999 was very similar to that reported for the baseline samples taken in 1993 (Nelson et al., 1996) and 1995 (EPA, unpublished data). In 1993 and 1999, the Upper Harbor was dominated by three species: the polychaete *Streblospio benedicti* and the bivalves *Mulinia lateralis* and *Gemma gemma*, which together accounted for at least 75% of the total infaunal abundance in 1993 and 1999. In 1995, *S. benedicti*, *Capitella capitata*, *G. gemma*, and *Hydrobia totteni* accounted for approximately 75% of the total fauna. Because the 1995 samples were taken shortly after dredging of the "hot spot" sediments, it is likely that the occurrence of *C. capitata* was due to its recruitment into newly disturbed sediments. Like *S. benedicti*, *C. capitata* is an opportunistic species, but its dominance tends to be limited to an early phase of succession. The community dominants in 1993 and 1999, therefore, represent a typical late summer assemblage in an upper estuarine habitat.

The Lower Harbor stations were overwhelmingly dominated by *Mulinia lateralis* in 1993 and 1999; in 1999 this species accounted for 40.2% of the total density. Other numerical dominants, including *S. benedicti*, *Mediomastus ambiseta*, *Mercenaria mercenaria*, and oligochaetes were the same in both years. In 1995, no one species was an overwhelming numerical dominant. Instead an assemblage of *S. benedicti*, *Tharyx acutus*, *M. lateralis*, oligochaetes, *Leitoscoloplos* sp., and *Mediomastus ambiseta*

characterized the segment. In 1999, the polychaete *Tharyx acutus* was also dominant at Lower Harbor stations.

The Outer Harbor stations were much more diverse than the other areas in all three samplings, but in 1999 the polychaete *M. ambiseta* accounted for 42.9% of the fauna, whereas in 1993 and 1995, it was not as numerically important.

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APPENDIX 1

STATION DATA FOR THE 1999 NEW BEDFORD HARBOR LONG-TERM MONITORING III SURVEY

APPENDIX I. Station Data for the 1999 New Bedford Harbor Long-Term Monitoring III Field Program.

| Event No. | Visit No. | SIB No. | Event Date | Begin Time | End Time | Event Duration | Event Length | | Event Duration | | Event Length | |
|-----------|-----------|---------|------------|------------|----------|----------------|--------------|-----|----------------|-----|--------------|------|
| | | | | | | | Min | Sec | Min | Sec | Min | Sec |
| 5001 | 1 | 105 | 05-Oct-99 | 14:22 | 41 | 40:488 | 70 | | 54:908 | | 05:13 | 0.9 |
| 5002 | 1 | 108 | 06-Oct-99 | 10:01 | 41 | 40:496 | 70 | | 54:955 | | 06:05 | 0.9 |
| 5003 | 1 | 109 | 06-Oct-99 | 08:47 | 41 | 40:438 | 70 | | 54:865 | | 06:05 | 0.9 |
| 5004 | 1 | 111 | 05-Oct-99 | 11:45 | 41 | 40:422 | 70 | | 54:9 | | 05:13 | 0.5 |
| 5005 | 1 | 114 | 01-Oct-99 | 13:07 | 41 | 40:355 | 70 | | 54:971 | | 13:33 | 2.4 |
| 5006 | 1 | 115 | 05-Oct-99 | 15:50 | 41 | 40:345 | 70 | | 54:842 | | 05:13 | 1.2 |
| 5007 | 1 | 117 | 29-Sep-99 | 09:49 | 41 | 40:255 | 70 | | 55:039 | | 11:33 | 1.8 |
| 5007 | 2 | 117 | 18-Nov-99 | 12:46 | 41 | 40:28 | 70 | | 55:019 | | 15:35 | 1.4 |
| 5008 | 1 | 120 | 18-Nov-99 | 11:14 | 41 | 40:13 | 70 | | 55:08 | | 15:36 | 1 |
| 5009 | 1 | 121 | 18-Nov-99 | 13:35 | 41 | 40:154 | 70 | | 55:003 | | 15:36 | 1.4 |
| 5010 | 1 | 123 | 29-Sep-99 | 10:19 | 41 | 40:016 | 70 | | 55:034 | | 11:33 | 2.5 |
| 5011 | 1 | 125 | 29-Sep-99 | 11:38 | 41 | 40:01 | 70 | | 55:098 | | 11:33 | 3 |
| 5012 | 1 | 126 | 29-Sep-99 | 12:43 | 41 | 40:01 | 70 | | 54:987 | | 11:33 | 1.5 |
| 5013 | 1 | 128 | 29-Sep-99 | 14:06 | 41 | 39:926 | 70 | | 55:041 | | 11:33 | 3 |
| 5014 | 1 | 130 | 01-Oct-99 | 14:57 | 41 | 39:848 | 70 | | 55:086 | | 13:33 | 1.8 |
| 5015 | 1 | 131 | 29-Sep-99 | 15:44 | 41 | 39:847 | 70 | | 54:982 | | 11:33 | 1.2 |
| 5016 | 1 | 134 | 01-Oct-99 | 16:10 | 41 | 39:756 | 70 | | 55:032 | | 13:33 | 2.3 |
| 5017 | 1 | 135 | 01-Oct-99 | 11:28 | 41 | 39:753 | 70 | | 54:936 | | 13:33 | 1.7 |
| 5018 | 1 | 138 | 05-Oct-99 | 08:35 | 41 | 39:68 | 70 | | 55:219 | | 05:13 | 0.8 |
| 5019 | 1 | 139 | 28-Sep-99 | 08:07 | 41 | 39:675 | 70 | | 55:104 | | 11:33 | 1.4 |
| 5020 | 1 | 140 | 01-Oct-99 | 10:18 | 41 | 39:685 | 70 | | 54:977 | | 13:31 | 3.3 |
| 5021 | 1 | 146 | 01-Oct-99 | 08:40 | 41 | 39:601 | 70 | | 54:896 | | 13:31 | 3.3 |
| 5022 | 1 | 147 | 28-Sep-99 | 12:35 | 41 | 39:594 | 70 | | 54:91 | | 10:41 | 1.7 |
| 5023 | 1 | 150 | 28-Sep-99 | 10:00 | 41 | 39:513 | 70 | | 55:087 | | 10:41 | 3.4 |
| 5024 | 1 | 151 | 28-Sep-99 | 14:01 | 41 | 39:502 | 70 | | 54:98 | | 10:41 | 1.5 |
| 5025 | 1 | 152 | 28-Sep-99 | 08:30 | 41 | 39:485 | 70 | | 54:848 | | 10:41 | 1.7 |
| 5026 | 1 | 154 | 28-Sep-99 | 16:01 | 41 | 39:415 | 70 | | 55:05 | | 10:41 | 3.4 |
| 5027 | 1 | 155 | 28-Sep-99 | 11:09 | 41 | 39:44 | 70 | | 54:94 | | 10:41 | 1.7 |
| 5027 | 2 | 155 | 18-Nov-99 | 14:48 | 41 | 39:419 | 70 | | 54:94 | | 15:35 | 2.3 |
| 5028 | 2 | 202 | 06-Oct-99 | 12:00 | 41 | 39:323 | 70 | | 55:032 | | 06:05 | 4.7 |
| 5028 | 1 | 202 | 06-Oct-99 | 12:00 | 41 | 39:323 | 70 | | 55:032 | | 06:05 | 4.7 |
| 5028 | 3 | 202 | 18-Nov-99 | 08:32 | 41 | 39:326 | 70 | | 55:02 | | 15:36 | 4.9 |
| 5029 | 1 | 204 | 22-Sep-99 | 15:30 | 41 | 39:158 | 70 | | 55:145 | | 06:13 | 8.2 |
| 5030 | 1 | 207 | 22-Sep-99 | 14:08 | 41 | 38:984 | 70 | | 55:27 | | 06:13 | 1.7 |
| 5031 | 1 | 208 | 23-Sep-99 | 08:15 | 41 | 38:981 | 70 | | 55:022 | | 06:58 | 1.3 |
| 5032 | 1 | 211 | 22-Sep-99 | 13:10 | 41 | 38:829 | 70 | | 55:158 | | 06:13 | 3 |
| 5033 | 1 | 212 | 24-Sep-99 | 08:50 | 41 | 38:826 | 70 | | 54:906 | | 07:41 | 3.3 |
| 5034 | 1 | 216 | 22-Sep-99 | 10:48 | 41 | 38:66 | 70 | | 55:023 | | 06:13 | 2.2 |
| 5035 | 1 | 217 | 23-Sep-99 | 10:21 | 41 | 38:662 | 70 | | 54:781 | | 06:58 | 3 |
| 5036 | 1 | 218 | 27-Oct-99 | 10:00 | 41 | 38:667 | 70 | | 54:527 | | 10:05 | 9.5 |
| 5037 | 1 | 220 | 22-Sep-99 | 08:24 | 41 | 38:507 | 70 | | 55:141 | | 06:13 | 11.1 |
| 5038 | 1 | 221 | 24-Sep-99 | 07:15 | 41 | 38:528 | 70 | | 54:903 | | 07:41 | 3 |
| 5039 | 1 | 222 | 23-Sep-99 | 12:10 | 41 | 38:501 | 70 | | 54:641 | | 06:58 | 3.1 |

Appendix 1. Station Data for the 1999 New Bedford Harbor Long-Term Monitoring III Field Program.

| Event No. | Visit No. | Site No. | Event Date | Event Begin Time | Event End Time | Event Altitude | Event Long. | Event Lat. | Event Min. Depth (m) | Event Max. Depth (m) |
|-----------|-----------|----------|------------|------------------|----------------|----------------|-------------|------------|----------------------|----------------------|
| 5040 | 1 | 224 | 22-Sep-99 | 08:10 | 41 | 38.338 | 70 | 55.269 | 06:13 | 10 |
| 5041 | 1 | 225 | 21-Sep-99 | 10:52 | 41 | 38.332 | 70 | 55.026 | 17:47 | 8.8 |
| 5042 | 1 | 226 | 21-Sep-99 | 14:00 | 41 | 38.336 | 70 | 54.809 | 17:47 | 3.5 |
| 5043 | 1 | 227 | 21-Sep-99 | 15:50 | 41 | 38.33 | 70 | 54.537 | 17:47 | 3 |
| 5044 | 1 | 230 | 21-Sep-99 | 09:20 | 41 | 38.185 | 70 | 55.16 | 17:47 | 7.2 |
| 5045 | 1 | 231 | 21-Sep-99 | 08:00 | 41 | 38.166 | 70 | 54.874 | 17:47 | 4.1 |
| 5046 | 1 | 235 | 20-Sep-99 | 14:55 | 41 | 38.011 | 70 | 55.035 | 16:58 | 8.8 |
| 5047 | 1 | 236 | 20-Sep-99 | 16:25 | 41 | 38.031 | 70 | 54.785 | 16:58 | 10.3 |
| 5048 | 1 | 237 | 24-Sep-99 | 10:22 | 41 | 38.006 | 70 | 54.541 | 07:41 | 6 |
| 5049 | 1 | 240 | 20-Sep-99 | 13:16 | 41 | 37.873 | 70 | 54.91 | 16:58 | 10 |
| 5050 | 1 | 241 | 20-Sep-99 | 11:08 | 41 | 37.854 | 70 | 54.656 | 16:58 | 10.2 |
| 5051 | 1 | 242 | 20-Sep-99 | 09:41 | 41 | 37.843 | 70 | 54.416 | 16:58 | 5.8 |
| 5052 | 1 | 245 | 19-Sep-99 | 14:15 | 41 | 37.667 | 70 | 54.78 | 16:04 | 3.4 |
| 5053 | 1 | 246 | 19-Sep-99 | 15:49 | 41 | 37.68 | 70 | 54.28 | 16:04 | 3.6 |
| 5054 | 1 | 247 | 19-Sep-99 | 15:49 | 41 | 37.68 | 70 | 54.28 | 16:04 | 3.6 |
| 5055 | 1 | 249 | 19-Sep-99 | 12:49 | 41 | 37.52 | 70 | 54.67 | 16:04 | 2.4 |
| 5056 | 1 | 250 | 19-Sep-99 | 10:03 | 41 | 37.51 | 70 | 54.42 | 16:04 | 8.8 |
| 5057 | 1 | 253 | 20-Sep-99 | 08:07 | 41 | 37.354 | 70 | 54.799 | 16:58 | 2.6 |
| 5058 | 1 | 304 | 14-Sep-99 | 16:26 | 41 | 37.158 | 70 | 54.534 | 23:57 | 3.1 |
| 5060 | 1 | 306 | 14-Sep-99 | 13:28 | 41 | 37.15 | 70 | 52.237 | 23:57 | 2.8 |
| 5061 | 1 | 309 | 07-Oct-99 | 17:24 | 41 | 36.432 | 70 | 55.1 | 06:53 | 5.2 |
| 5062 | 1 | 310 | 14-Sep-99 | 10:53 | 41 | 36.407 | 70 | 53.983 | 11:38 | 6.4 |
| 5063 | 1 | 311 | 14-Sep-99 | 12:43 | 41 | 36.4 | 70 | 52.848 | 11:38 | 5.5 |
| 5064 | 1 | 317 | 07-Oct-99 | 08:05 | 41 | 35.669 | 70 | 53.411 | 06:53 | 9.8 |
| 5065 | 1 | 318 | 10-Oct-99 | 07:49 | 41 | 35.664 | 70 | 52.263 | 09:01 | 6.6 |
| 5066 | 1 | 323 | 07-Oct-99 | 16:18 | 41 | 34.941 | 70 | 55.132 | 06:53 | 8.4 |
| 5067 | 1 | 324 | 07-Oct-99 | 10:12 | 41 | 34.926 | 70 | 53.979 | 06:53 | 9.9 |
| 5068 | 1 | 325 | 10-Oct-99 | 09:55 | 41 | 34.907 | 70 | 52.856 | 09:01 | 11.8 |
| 5071 | 1 | 331 | 15-Sep-99 | 15:55 | 41 | 34.198 | 70 | 55.707 | 12:24 | 7.3 |
| 5072 | 1 | 332 | 07-Oct-99 | 11:20 | 41 | 34.195 | 70 | 54.571 | 06:53 | 8.5 |
| 5073 | 1 | 333 | 08-Oct-99 | 15:20 | 41 | 34.191 | 70 | 53.425 | 07:38 | 6.2 |
| 5074 | 1 | 334 | 08-Oct-99 | 13:47 | 41 | 34.183 | 70 | 55.267 | 07:38 | 11.3 |
| 5075 | 1 | 335 | 08-Oct-99 | 12:20 | 41 | 34.195 | 70 | 51.137 | 07:38 | 8 |
| 5076 | 1 | 336 | 07-Oct-99 | 12:34 | 41 | 33.468 | 70 | 55.134 | 06:53 | 8.3 |
| 5077 | 1 | 339 | 07-Oct-99 | 15:10 | 41 | 33.445 | 70 | 53.98 | 06:53 | 12.2 |
| 5078 | 1 | 340 | 08-Oct-99 | 09:46 | 41 | 33.448 | 70 | 52.874 | 07:38 | 12 |
| 5079 | 1 | 341 | 08-Oct-99 | 11:08 | 41 | 33.439 | 70 | 51.729 | 07:38 | 11 |
| 5081 | 1 | 345 | 07-Oct-99 | 13:57 | 41 | 32.692 | 70 | 54.591 | 06:53 | 11.6 |
| 5082 | 1 | 346 | 08-Oct-99 | 07:55 | 41 | 32.696 | 70 | 53.469 | 07:38 | 11.9 |
| 5083 | 1 | 349 | 15-Sep-99 | 11:17 | 41 | 31.977 | 70 | 56.31 | 12:24 | 8.2 |
| 5085 | 1 | 352 | 15-Sep-99 | 09:35 | 41 | 31.233 | 70 | 56.882 | 12:24 | 6.4 |

APPENDIX 2

WATER QUALITY DATA FOR THE 1999 NEW BEDFORD LONG TERM MONITORING III SURVEY

Appendix. 2 Water Quality Data for the 1999 New Bedford Long Term Monitoring III Program

| Station | CTD Date | CTD ID | CAST TIME | Depth (m) | Temp (C) | Salinity (ppt) | DO (mg/L) |
|---------|----------|---------|-----------|-----------|----------|----------------|-----------|
| 105 | 10/5/99 | 5001200 | 16:11 | 0.6 | 17.9 | 31.3 | 8.4 |
| 108 | 10/6/99 | 5002200 | 16:07 | 0.6 | 18.3 | 31.6 | 10.1 |
| 109 | 10/6/99 | 5003200 | 16:16 | 0.2 | 18.0 | 31.0 | 8.4 |
| 111 | 10/5/99 | 5004200 | 16:22 | 0.9 | 17.9 | 32.1 | 8.6 |
| 114 | 10/1/99 | 5005200 | 14:15 | 1.3 | 20.0 | 33.4 | 8.5 |
| 115 | 10/5/99 | 5006200 | 16:28 | 0.4 | 18.2 | 30.8 | 7.3 |
| 117 | 9/29/99 | 5007200 | | | | | |
| 117 | 11/18/99 | 5007200 | 13:16 | 1.0 | 8.5 | 29.9 | 9.3 |
| 120 | 11/18/99 | 5008200 | 11:32 | 0.4 | 8.4 | 30.1 | 9.1 |
| 121 | 11/18/99 | 5009200 | 13:59 | 1.1 | 7.9 | 29.6 | 9.7 |
| 123 | 9/29/99 | 5010200 | 10:45 | 1.8 | 19.7 | 34.5 | 7.4 |
| 125 | 9/29/99 | 5011200 | 12:13 | 1.8 | 19.8 | 34.5 | 7.7 |
| 126 | 9/29/99 | 5012200 | 13:51 | 0.7 | 20.2 | 34.1 | 8.7 |
| 128 | 9/29/99 | 5013200 | 14:12 | 2.3 | 20.1 | 34.3 | 8.7 |
| 130 | 10/1/99 | 5014200 | 15:00 | 1.4 | 19.6 | 34.1 | 7.4 |
| 131 | 9/29/99 | 5015200 | 15:49 | 1.2 | 20.6 | 33.4 | 10.8 |
| 134 | 10/1/99 | 5016200 | 16:31 | 1.9 | 19.8 | 33.5 | 8.7 |
| 135 | 10/1/99 | 5017200 | 11:35 | 0.7 | 19.3 | 34.1 | 7.5 |
| 138 | 10/5/99 | 5018200 | 15:57 | 0.7 | 17.7 | 33.7 | 6.7 |
| 139 | 9/29/99 | 5019200 | 09:13 | 0.6 | 19.7 | 34.5 | 7.3 |
| 140 | 10/1/99 | 5020200 | 10:58 | 2.5 | 19.1 | 34.1 | 7.1 |
| 146 | 10/1/99 | 5021200 | 08:49 | 2.6 | 19.1 | 34.0 | 6.6 |
| 147 | 9/28/99 | 5022200 | 13:32 | 0.4 | 20.2 | 34.3 | 7.8 |
| 150 | 9/28/99 | 5023200 | 10:26 | 3.6 | 19.6 | 34.5 | 6.8 |
| 151 | 9/28/99 | 5024200 | 14:05 | 1.2 | 20.2 | 34.0 | 7.8 |
| 152 | 9/28/99 | 5025200 | 09:20 | 1.1 | 19.6 | 34.2 | 6.8 |
| 154 | 9/28/99 | 5026200 | 16:01 | 2.7 | 20.1 | 34.1 | 7.4 |
| 155 | 9/28/99 | 5027200 | 12:05 | 1.1 | 19.8 | 34.5 | 7.3 |
| 155 | 11/18/99 | 5027200 | 12:05 | 1.1 | 19.8 | 34.5 | 7.3 |
| 202 | 10/6/99 | 5028200 | 15:50 | 3.4 | 17.4 | 33.9 | 6.7 |

Appendix. 2 Water Quality Data for the 1999 New Bedford Long Term Monitoring III Program

| Station | CTD Date | CTD ID | CAST TIME | Depth (m) | Temp (C) | Salinity (ppt) | DO (mg/L) |
|---------|----------|---------|-----------|-----------|----------|----------------|-----------|
| 202 | 11/18/99 | 5028200 | | 7.9 | 20.7 | 36.5 | 5.3 |
| 204 | 9/22/99 | 5029200 | 15.30 | 1.2 | 20.7 | 35.1 | 6.2 |
| 207 | 9/22/99 | 5030200 | 14.11 | | | | |
| 208 | 9/23/99 | 5031200 | 09.29 | 1.1 | 19.6 | 35.9 | 6.3 |
| 211 | 9/22/99 | 5032200 | 13.10 | 2.3 | 20.7 | 35.9 | 5.8 |
| 212 | 9/24/99 | 5033200 | 08.55 | 2.5 | 19.7 | 36.2 | 6.6 |
| 216 | 9/22/99 | 5034200 | 10.51 | 1.6 | 20.6 | 35.7 | 5.9 |
| 217 | 9/23/99 | 5035200 | 10.35 | 2.7 | 19.9 | 36.3 | 6.7 |
| 218 | 10/27/99 | 5036200 | 07.45 | 0.3 | 7.1 | 31.8 | 9.4 |
| 220 | 9/22/99 | 5037200 | 09.24 | 9.1 | 20.7 | 36.5 | 5.1 |
| 221 | 9/24/99 | 5038200 | 08.10 | 2.3 | 17.1 | 36.1 | 6.0 |
| 222 | 9/23/99 | 5039200 | 12.45 | 2.7 | 20.1 | 36.2 | 7.1 |
| 224 | 9/22/99 | 5040200 | 08.49 | 9.1 | 20.7 | 36.5 | 4.7 |
| 225 | 9/21/99 | 5041200 | 10.52 | 9.3 | 20.6 | 36.7 | 4.3 |
| 226 | 9/21/99 | 5042200 | 15.40 | 2.9 | 20.9 | 36.1 | 7.1 |
| 227 | 9/21/99 | 5043200 | 15.50 | 2.2 | 21.2 | 35.8 | 8.3 |
| 230 | 9/21/99 | 5044200 | 09.20 | 5.3 | 20.6 | 36.5 | 4.2 |
| 231 | 9/21/99 | 5045200 | 08.01 | 5.9 | 20.6 | 36.6 | 5.3 |
| 235 | 9/20/99 | 5046200 | 14.58 | 7.6 | 20.6 | 36.7 | 5.2 |
| 236 | 9/20/99 | 5047200 | 16.30 | 8.7 | 20.6 | 36.6 | 5.7 |
| 237 | 9/24/99 | 5048200 | 11.28 | 5.4 | 19.7 | 36.6 | 6.8 |
| 240 | 9/20/99 | 5049200 | 13.31 | 8.6 | 20.4 | 36.6 | 5.7 |
| 241 | 9/20/99 | 5050200 | 11.14 | 8.0 | 20.6 | 36.8 | 5.2 |
| 242 | 9/20/99 | 5051200 | 09.45 | 4.7 | 20.4 | 36.6 | 6.0 |
| 245 | 9/19/99 | 5052200 | 15.15 | 2.0 | 20.6 | 35.8 | 6.6 |
| 247 | 9/19/99 | 5054200 | 16.26 | 2.4 | 20.8 | 36.1 | 6.7 |
| 249 | 9/19/99 | 5055200 | 13.39 | 1.2 | 20.6 | 35.6 | 6.9 |
| 250 | 9/19/99 | 5056200 | 10.04 | 9.2 | 20.3 | 36.9 | 5.6 |
| 253 | 9/20/99 | 5057200 | 08.20 | 1.7 | 20.1 | 36.3 | 5.6 |
| 304 | 9/14/99 | 5058200 | 11.53 | 2.4 | 16.2 | 35.6 | 6.7 |

Appendix. 2 Water Quality Data for the 1999 New Bedford Long Term Monitoring III Program

| Station | CTD Date | CTD ID | CAST TIME | Depth (m) | Temp (C) | Salinity (ppt) | DO (mg/L) |
|---------|----------|---------|-----------|-----------|----------|----------------|-----------|
| 306 | 9/14/99 | 5060200 | | | | | |
| 309 | 10/7/99 | 5061200 | 17:55 | 3.9 | 15.7 | 35.8 | 9.8 |
| 310 | 9/14/99 | 5062200 | 11:42 | 5.1 | 16.3 | 36.0 | 8.5 |
| 311 | 9/14/99 | 5063200 | | | | | |
| 317 | 10/7/99 | 5064200 | 08:05 | 8.5 | 17.1 | 35.9 | 7.7 |
| 318 | 10/10/99 | 5065200 | 07:49 | 5.5 | 16.0 | 35.9 | 8.0 |
| 323 | 10/7/99 | 5066200 | 16:38 | 7.4 | 16.9 | 36.0 | 8.3 |
| 324 | 10/7/99 | 5067200 | 10:32 | 8.6 | 16.7 | 35.9 | 7.8 |
| 325 | 10/10/99 | 5068200 | 09:55 | 9.9 | 16.8 | 36.3 | 8.1 |
| 331 | 9/15/99 | 5071200 | | | | | |
| 332 | 10/7/99 | 5072200 | 11:55 | 7.8 | 16.7 | 35.8 | 8.1 |
| 333 | 10/8/99 | 5073200 | 15:20 | 6.0 | 16.7 | 36.1 | 8.9 |
| 334 | 10/8/99 | 5074200 | 13:47 | 9.9 | 16.7 | 36.2 | 8.2 |
| 335 | 10/8/99 | 5075200 | 12:20 | 7.3 | 16.1 | 36.0 | 8.5 |
| 338 | 10/7/99 | 5076200 | 12:55 | 7.3 | 17.1 | 36.1 | 7.7 |
| 339 | 10/7/99 | 5077200 | 15:30 | 11.5 | 17.4 | 35.1 | 8.4 |
| 340 | 10/8/99 | 5078200 | 09:46 | 10.5 | 16.8 | 36.3 | 8.4 |
| 341 | 10/8/99 | 5079200 | 11:08 | 9.8 | 16.1 | 36.1 | 8.5 |
| 345 | 10/7/99 | 5081200 | 14:45 | 11.1 | 17.5 | 36.3 | 7.9 |
| 346 | 10/8/99 | 5082200 | 07:55 | 11.9 | 17.2 | 36.4 | 8.3 |
| 349 | 9/15/99 | 5083200 | | | | | |
| 352 | 9/15/99 | 5085200 | | | | | |

APPENDIX 3

SEDIMENT GRAIN-SIZE DATA FOR THE 1999 NEW BEDFORD HARBOR LONG-TERM MONITORING III

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | PERCENT | | | PHI | <1 | 0 | 1 | 2 | 3 | 4 | 5 | Mean | Std Dev |
|------------|-------------|---------|------|------|------|------|------|------|-------|-------|-------|------|------|---------|
| | | Sand | Silt | Clay | | | | | | | | | | |
| 5001006 | 105 | 1.5 | 47.3 | 30.0 | 21.1 | 1.54 | 2.28 | 3.03 | 9.23 | 17.18 | 15.59 | 4.80 | 2.85 | |
| 5001007 | 105 | 0.3 | 44.6 | 34.1 | 21.0 | 0.32 | 1.95 | 3.31 | 5.94 | 13.99 | 19.40 | 5.06 | 2.67 | |
| 5001008 | 105 | 0.2 | 46.1 | 32.9 | 20.8 | 0.16 | 1.19 | 1.94 | 8.95 | 17.68 | 16.39 | 5.00 | 2.65 | |
| 5001027 | 105 | 2.0 | 46.9 | 34.8 | 16.2 | 2.05 | 1.77 | 2.73 | 6.38 | 15.25 | 20.75 | 4.73 | 2.65 | |
| 5002006 | 108 | 0.2 | 29.0 | 39.7 | 31.1 | 0.16 | 0.58 | 2.47 | 4.45 | 12.03 | 9.47 | 5.89 | 2.61 | |
| 5002007 | 108 | 4.6 | 29.0 | 34.3 | 32.0 | 4.62 | 1.48 | 3.55 | 5.44 | 9.90 | 8.66 | 5.52 | 3.13 | |
| 5002008 | 108 | 0.0 | 29.4 | 36.8 | 33.9 | 0.00 | 1.08 | 4.14 | 6.30 | 8.87 | 8.96 | 5.90 | 2.77 | |
| 5002027 | 108 | 0.2 | 25.7 | 37.9 | 36.1 | 0.25 | 1.72 | 4.06 | 5.66 | 6.76 | 7.50 | 6.05 | 2.79 | |
| 5003006 | 109 | 2.4 | 35.5 | 42.3 | 19.8 | 2.44 | 1.99 | 4.23 | 7.95 | 10.26 | 11.03 | 5.06 | 2.82 | |
| 5003007 | 109 | 5.2 | 37.9 | 39.1 | 17.9 | 5.16 | 2.94 | 4.72 | 8.77 | 9.32 | 12.10 | 4.68 | 3.02 | |
| 5003008 | 109 | 0.9 | 29.5 | 48.1 | 21.6 | 0.87 | 1.09 | 3.78 | 5.46 | 8.66 | 10.48 | 5.49 | 2.57 | |
| 5003027 | 109 | 2.3 | 31.7 | 42.9 | 23.1 | 2.27 | 3.40 | 4.54 | 7.03 | 8.01 | 8.69 | 5.24 | 2.92 | |
| 5004006 | 111 | 0.7 | 32.7 | 43.7 | 22.9 | 0.70 | 1.67 | 2.48 | 4.37 | 13.45 | 10.69 | 5.45 | 2.61 | |
| 5004007 | 111 | 0.4 | 30.2 | 43.5 | 25.9 | 0.37 | 1.29 | 2.15 | 3.81 | 10.46 | 12.43 | 5.70 | 2.55 | |
| 5004008 | 111 | 0.3 | 24.3 | 49.9 | 25.5 | 0.26 | 0.98 | 1.90 | 3.40 | 8.63 | 9.42 | 5.89 | 2.40 | |
| 5004027 | 111 | 2.4 | 32.6 | 43.0 | 22.0 | 2.41 | 1.65 | 2.52 | 4.88 | 11.96 | 11.58 | 5.31 | 2.74 | |
| 5005006 | 114 | 0.6 | 17.8 | 49.0 | 32.6 | 0.56 | 1.31 | 1.87 | 2.90 | 5.90 | 5.80 | 6.27 | 2.44 | |
| 5005007 | 114 | 0.8 | 32.2 | 19.1 | 47.9 | 0.82 | 0.55 | 2.45 | 5.73 | 13.37 | 10.09 | 6.23 | 3.02 | |
| 5005008 | 114 | 0.0 | 19.7 | 51.3 | 29.0 | 0.00 | 0.36 | 0.84 | 2.52 | 7.56 | 8.41 | 6.21 | 2.22 | |
| 5005027(A) | 114 | 1.9 | 20.7 | 50.2 | 27.1 | 1.93 | 3.49 | 3.13 | 3.98 | 5.30 | 4.82 | 5.79 | 2.77 | |
| 5005027(B) | 114 | 4.0 | 20.6 | 48.5 | 26.9 | 3.98 | 3.10 | 3.87 | 4.54 | 4.87 | 4.20 | 5.61 | 2.96 | |
| 5005027(C) | 114 | 1.9 | 23.5 | 50.2 | 24.4 | 1.91 | 2.77 | 3.72 | 5.16 | 6.40 | 5.44 | 5.61 | 2.75 | |
| 5006006 | 115 | 0.0 | 33.7 | 47.0 | 19.3 | 0.00 | 4.64 | 6.51 | 6.78 | 9.18 | 6.60 | 5.13 | 2.80 | |
| 5006007 | 115 | 0.4 | 38.3 | 43.1 | 18.2 | 0.45 | 8.62 | 8.26 | 6.82 | 5.83 | 8.80 | 4.77 | 3.02 | |
| 5006008 | 115 | 0.1 | 32.3 | 46.9 | 20.6 | 0.11 | 4.59 | 8.25 | 6.76 | 6.65 | 6.08 | 5.17 | 2.87 | |
| 5006027 | 115 | 0.3 | 27.1 | 47.9 | 24.7 | 0.30 | 1.83 | 5.79 | 5.94 | 6.55 | 7.01 | 5.61 | 2.68 | |
| 5007006 | 117 | 0.9 | 20.5 | 36.9 | 41.7 | 0.88 | 6.88 | 4.38 | 3.38 | 2.75 | 3.13 | 6.17 | 3.11 | |
| 5007007 | 117 | 3.8 | 29.5 | 39.2 | 27.5 | 3.80 | 3.15 | 5.09 | 8.32 | 7.11 | 5.81 | 5.29 | 3.14 | |
| 5007008 | 117 | 5.8 | 41.4 | 29.0 | 23.9 | 5.82 | 5.10 | 6.96 | 11.27 | 10.55 | 7.47 | 4.50 | 3.39 | |
| 5007027(A) | 117 | 2.1 | 25.6 | 41.1 | 31.2 | 2.11 | 4.22 | 3.48 | 5.60 | 6.65 | 5.60 | 5.69 | 3.01 | |
| 5007027(B) | 117 | 6.6 | 21.2 | 40.0 | 32.1 | 6.61 | 2.62 | 3.88 | 4.22 | 5.24 | 5.24 | 5.58 | 3.25 | |
| 5007027(C) | 117 | 7.4 | 21.8 | 39.6 | 31.2 | 7.37 | 3.12 | 3.74 | 4.24 | 5.37 | 5.37 | 5.46 | 3.31 | |
| 5008006 | 120 | 8.0 | 28.8 | 37.0 | 26.2 | 8.00 | 8.71 | 5.42 | 5.07 | 5.16 | 4.45 | 4.80 | 3.56 | |
| 5008007 | 120 | 4.1 | 30.9 | 40.2 | 24.7 | 4.13 | 7.17 | 5.65 | 5.90 | 6.58 | 5.65 | 5.02 | 3.27 | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | PHYSICAL PERCENT | | | | | | Mean | Std Dev |
|------------|-------------|------------------|------|--------|------|-------|------|------|---------|
| | | Silt | Sand | Gravel | Clay | 1 | 2 | 3 | 4 |
| 5008008 | 120 | 2.9 | 33.6 | 39.8 | 23.8 | 2.85 | 6.75 | 5.84 | 6.61 |
| 5008027 | 120 | 9.2 | 26.2 | 39.2 | 25.5 | 9.21 | 7.54 | 5.00 | 4.90 |
| 5009006 | 121 | 4.6 | 28.7 | 42.4 | 24.4 | 4.58 | 8.17 | 4.01 | 7.45 |
| 5009007 | 121 | 2.0 | 24.0 | 46.3 | 27.6 | 2.01 | 4.28 | 4.53 | 6.63 |
| 5009008 | 121 | 2.1 | 25.7 | 42.5 | 29.7 | 2.08 | 5.07 | 4.24 | 6.40 |
| 5009027 | 121 | 2.7 | 27.2 | 48.2 | 22.0 | 2.71 | 6.97 | 4.74 | 6.44 |
| 5010006 | 123 | 7.1 | 34.1 | 36.7 | 22.2 | 7.05 | 5.88 | 5.88 | 8.91 |
| 5010007 | 123 | 6.6 | 39.0 | 35.3 | 19.1 | 6.55 | 5.07 | 6.62 | 10.43 |
| 5010008 | 123 | 2.4 | 32.5 | 41.0 | 24.1 | 2.45 | 3.63 | 4.98 | 8.27 |
| 5010027(A) | 123 | 2.8 | 34.0 | 44.0 | 19.2 | 2.78 | 4.13 | 5.49 | 9.17 |
| 5010027(B) | 123 | 3.4 | 33.6 | 41.7 | 21.3 | 3.40 | 4.23 | 4.57 | 8.39 |
| 5010027(C) | 123 | 4.3 | 29.3 | 41.5 | 24.8 | 4.33 | 5.98 | 5.43 | 7.63 |
| 5011006 | 125 | 0.0 | 8.1 | 64.5 | 27.4 | 0.00 | 0.61 | 1.42 | 1.93 |
| 5011007 | 125 | 0.0 | 7.7 | 59.6 | 32.7 | 0.00 | 0.31 | 1.03 | 1.76 |
| 5011008 | 125 | 0.0 | 5.4 | 66.1 | 28.4 | 0.00 | 0.00 | 0.41 | 1.02 |
| 5011027 | 125 | 3.5 | 10.3 | 61.3 | 24.9 | 3.49 | 1.08 | 1.41 | 1.81 |
| 5012006 | 126 | 1.0 | 89.4 | 5.9 | 3.7 | 1.01 | 2.33 | 7.19 | 20.72 |
| 5012007 | 126 | 11.2 | 78.0 | 4.7 | 6.1 | 11.17 | 5.40 | 9.24 | 20.20 |
| 5012008 | 126 | 2.8 | 89.8 | 4.3 | 3.2 | 2.76 | 3.78 | 7.77 | 23.45 |
| 5012027 | 126 | 3.0 | 55.1 | 30.0 | 11.9 | 3.03 | 2.36 | 4.93 | 13.59 |
| 5012006 | 128 | 1.9 | 21.1 | 49.3 | 27.7 | 1.89 | 3.65 | 3.38 | 3.65 |
| 5012007 | 128 | 2.5 | 21.5 | 53.0 | 23.0 | 2.48 | 4.32 | 4.00 | 3.35 |
| 5012008 | 128 | 3.7 | 26.8 | 43.7 | 25.8 | 3.72 | 5.85 | 4.51 | 4.75 |
| 5012027 | 128 | 0.1 | 22.1 | 56.5 | 21.2 | 0.11 | 2.54 | 2.76 | 3.46 |
| 5012028 | 128 | 1.0 | 23.2 | 56.6 | 19.2 | 1.01 | 4.48 | 3.42 | 4.05 |
| 5014006 | 130 | 9.5 | 23.6 | 44.7 | 22.2 | 9.45 | 3.00 | 3.80 | 4.24 |
| 5014007 | 130 | 0.0 | 12.0 | 59.6 | 28.4 | 0.00 | 0.30 | 0.80 | 2.00 |
| 5014008 | 130 | 0.0 | 34.2 | 42.9 | 22.9 | 0.00 | 3.10 | 4.61 | 5.40 |
| 5014027 | 130 | 0.9 | 34.2 | 45.3 | 19.6 | 0.92 | 4.59 | 3.56 | 5.94 |
| 5015006 | 131 | 1.9 | 33.3 | 41.9 | 22.9 | 1.85 | 4.14 | 4.76 | 7.67 |
| 5015007 | 131 | 1.2 | 32.1 | 44.6 | 22.1 | 1.23 | 2.75 | 3.40 | 6.66 |
| 5015008 | 131 | 2.1 | 30.4 | 43.9 | 23.5 | 2.15 | 2.31 | 3.63 | 5.94 |
| 5015027(A) | 131 | 9.4 | 32.1 | 38.1 | 20.4 | 9.40 | 3.08 | 4.91 | 6.99 |
| 5015027(B) | 131 | 6.1 | 31.5 | 40.3 | 6.14 | 4.17 | 3.99 | 7.03 | 8.35 |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | PERCENT (%) | | | PHILLIPS PERCENT (%) | | | PERCENT (%) | | | PHILLIPS PERCENT (%) | | | PERCENT (%) | | | PHILLIPS PERCENT (%) | | |
|------------|-------------|-------------|------|------|----------------------|-------|------|-------------|-------|-------|----------------------|------|------|-------------|------|------|----------------------|------|----|
| | | Sand | Silt | Clay | >1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 5015027(C) | 131 | 5.6 | 32.8 | 40.2 | 21.4 | 5.65 | 3.89 | 3.70 | 7.34 | 9.04 | 8.79 | 4.89 | 3.13 | 3.13 | 3.13 | 3.13 | 3.13 | 3.13 | |
| 5016006 | 134 | 0.8 | 27.6 | 44.3 | 27.3 | 0.79 | 1.35 | 3.72 | 4.62 | 7.55 | 10.37 | 5.74 | 2.65 | 2.65 | 2.65 | 2.65 | 2.65 | 2.65 | |
| 5016007 | 134 | 0.1 | 30.4 | 40.0 | 29.5 | 0.11 | 3.57 | 3.89 | 6.60 | 8.33 | 8.00 | 5.64 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | |
| 5016008 | 134 | 0.0 | 25.0 | 46.9 | 28.1 | 0.00 | 0.19 | 2.58 | 3.82 | 7.54 | 10.88 | 5.98 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | |
| 5016027 | 134 | 1.9 | 27.8 | 45.2 | 25.1 | 1.85 | 5.95 | 3.70 | 4.17 | 6.22 | 7.80 | 5.42 | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | 2.95 | |
| 5017006 | 135 | 10.7 | 85.4 | 1.9 | 2.0 | 10.72 | 2.63 | 11.25 | 26.66 | 35.21 | 9.60 | 1.79 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | 1.83 | |
| 5017007 | 135 | 1.7 | 95.1 | 1.5 | 1.7 | 1.73 | 4.19 | 9.90 | 30.56 | 41.58 | 8.88 | 2.05 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | 1.46 | |
| 5017008 | 135 | 4.4 | 88.3 | 4.0 | 3.3 | 4.44 | 3.62 | 7.33 | 22.90 | 42.00 | 12.43 | 2.32 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | 1.88 | |
| 5017027 | 135 | 8.2 | 86.4 | 3.1 | 2.3 | 8.24 | 5.16 | 11.71 | 27.31 | 30.79 | 11.39 | 1.88 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | |
| 5018006 | 138 | 0.3 | 25.7 | 47.9 | 26.1 | 0.27 | 3.79 | 6.31 | 5.05 | 4.24 | 6.31 | 5.64 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | 2.80 | |
| 5018007 | 138 | 0.6 | 27.2 | 42.2 | 30.1 | 0.56 | 5.15 | 6.38 | 5.37 | 5.37 | 4.92 | 5.62 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | 3.01 | |
| 5018008 | 138 | 1.7 | 27.9 | 43.0 | 27.4 | 1.70 | 7.76 | 6.79 | 4.97 | 4.49 | 3.88 | 5.34 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | |
| 5018027 | 138 | 0.5 | 18.4 | 47.8 | 33.2 | 0.54 | 4.88 | 5.31 | 3.25 | 2.49 | 2.49 | 6.05 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | 2.84 | |
| 5019006 | 139 | 1.3 | 40.3 | 41.8 | 16.5 | 1.31 | 2.40 | 3.09 | 6.03 | 12.44 | 16.38 | 4.96 | 2.62 | 2.62 | 2.62 | 2.62 | 2.62 | 2.62 | |
| 5019007 | 139 | 2.2 | 41.4 | 38.4 | 18.0 | 2.23 | 3.88 | 3.95 | 5.46 | 10.93 | 17.18 | 4.84 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | 2.81 | |
| 5019008 | 139 | 1.3 | 39.7 | 40.9 | 18.1 | 1.33 | 2.92 | 4.78 | 5.77 | 11.41 | 14.79 | 4.96 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | 2.73 | |
| 5019027 | 139 | 9.9 | 34.2 | 40.1 | 15.9 | 9.88 | 3.34 | 4.19 | 5.52 | 8.47 | 12.70 | 4.43 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | 3.18 | |
| 5020006 | 140 | 4.3 | 30.1 | 43.7 | 21.8 | 4.34 | 2.49 | 1.95 | 3.90 | 9.43 | 12.36 | 5.25 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | 2.86 | |
| 5020007 | 140 | 0.1 | 31.0 | 43.3 | 25.6 | 0.10 | 1.45 | 2.90 | 4.56 | 9.34 | 12.76 | 5.65 | 2.57 | 2.57 | 2.57 | 2.57 | 2.57 | 2.57 | |
| 5020008 | 140 | 0.0 | 25.9 | 49.7 | 24.4 | 0.00 | 0.56 | 1.53 | 3.54 | 8.30 | 11.92 | 5.86 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | 2.31 | |
| 5020027 | 140 | 1.3 | 30.2 | 47.5 | 21.0 | 1.33 | 2.46 | 3.15 | 4.88 | 7.00 | 12.72 | 5.41 | 2.63 | 2.63 | 2.63 | 2.63 | 2.63 | 2.63 | |
| 5021006 | 146 | 48.3 | 33.8 | 10.2 | 7.7 | 48.27 | 1.26 | 2.26 | 5.71 | 18.89 | 5.71 | 1.34 | 3.35 | 3.35 | 3.35 | 3.35 | 3.35 | 3.35 | |
| 5021007 | 146 | 11.4 | 57.9 | 17.9 | 12.8 | 11.36 | 3.11 | 4.78 | 9.84 | 29.74 | 10.42 | 3.32 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | 3.07 | |
| 5021008 | 146 | 5.2 | 64.9 | 17.0 | 13.0 | 5.19 | 2.82 | 4.07 | 7.75 | 36.76 | 13.46 | 3.62 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | 2.79 | |
| 5021027 | 146 | 5.2 | 66.9 | 17.7 | 10.2 | 5.23 | 3.34 | 5.06 | 11.00 | 36.01 | 11.45 | 3.38 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | |
| 5022006 | 147 | 14.6 | 65.5 | 11.9 | 8.0 | 14.61 | 0.75 | 4.31 | 16.11 | 30.73 | 13.61 | 2.72 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | 2.77 | |
| 5022007 | 147 | 0.6 | 84.4 | 9.6 | 5.4 | 0.57 | 1.31 | 4.20 | 14.66 | 31.15 | 33.08 | 3.23 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | |
| 5022008 | 147 | 3.0 | 74.9 | 21.7 | 0.3 | 3.03 | 1.45 | 4.74 | 15.87 | 33.52 | 19.36 | 3.06 | 1.91 | 1.91 | 1.91 | 1.91 | 1.91 | 1.91 | |
| 5022027(A) | 147 | 1.3 | 86.7 | 7.9 | 4.1 | 1.34 | 1.70 | 6.12 | 22.95 | 35.49 | 20.40 | 2.79 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | |
| 5022027(B) | 147 | 1.0 | 87.8 | 7.0 | 4.2 | 0.97 | 1.87 | 6.42 | 25.11 | 35.55 | 18.88 | 2.73 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | 1.90 | |
| 5022027(C) | 147 | 7.7 | 81.5 | 6.5 | 4.3 | 7.72 | 1.57 | 5.85 | 21.73 | 33.03 | 19.36 | 2.51 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | |
| 5023006 | 150 | 0.0 | 58.3 | 27.4 | 14.3 | 0.00 | 1.75 | 2.48 | 5.98 | 25.52 | 22.53 | 4.45 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | 2.48 | |
| 5023007 | 150 | 8.0 | 69.5 | 13.4 | 9.2 | 7.96 | 3.87 | 5.04 | 12.42 | 27.53 | 20.67 | 3.11 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | |
| 5023008 | 150 | 1.0 | 73.3 | 16.8 | 8.9 | 0.96 | 3.53 | 5.51 | 15.45 | 31.68 | 17.12 | 3.43 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | 2.45 | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | PERCENT | | | PERCENT | | | PERCENT | | | PERCENT | | | PERCENT | | |
|------------|-------------|---------|------|------|---------|-------|------|---------|-------|-------|---------|------|------|---------|---|---|
| | | Silt | Sand | Gray | Clay | <1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 5023027 | 150 | 10.1 | 58.8 | 20.6 | 10.5 | 10.11 | 2.46 | 3.06 | 8.68 | 26.63 | 17.95 | 3.46 | 2.88 | | | |
| 5024006 | 151 | 7.5 | 79.1 | 7.6 | 5.8 | 7.45 | 1.58 | 3.98 | 18.86 | 40.84 | 13.84 | 2.67 | 2.28 | | | |
| 5024007 | 151 | 4.3 | 81.9 | 8.2 | 5.6 | 4.30 | 1.65 | 3.91 | 16.83 | 43.89 | 15.62 | 2.84 | 2.14 | | | |
| 5024008 | 151 | 1.6 | 70.9 | 15.5 | 12.0 | 1.58 | 1.22 | 2.61 | 11.30 | 36.77 | 19.02 | 3.75 | 2.49 | | | |
| 5024027(A) | 151 | 1.0 | 84.5 | 8.5 | 6.0 | 0.98 | 1.15 | 3.34 | 16.60 | 46.92 | 16.46 | 3.05 | 2.00 | | | |
| 5024027(B) | 151 | 4.9 | 80.3 | 8.6 | 6.2 | 4.87 | 1.36 | 2.93 | 15.64 | 45.73 | 14.60 | 2.90 | 2.20 | | | |
| 5024027(C) | 151 | 1.3 | 82.9 | 9.3 | 6.5 | 1.31 | 1.61 | 3.46 | 16.49 | 45.37 | 16.00 | 3.07 | 2.09 | | | |
| 5025006 | 152 | 2.5 | 50.7 | 35.8 | 10.9 | 2.54 | 3.75 | 4.68 | 9.85 | 11.26 | 21.15 | 4.27 | 2.67 | | | |
| 5025007 | 152 | 3.2 | 37.3 | 45.9 | 13.6 | 3.20 | 1.52 | 2.64 | 6.29 | 8.70 | 18.14 | 4.88 | 2.59 | | | |
| 5025008 | 152 | 10.3 | 39.4 | 37.8 | 12.5 | 10.34 | 2.59 | 5.62 | 7.09 | 9.81 | 14.31 | 4.10 | 3.11 | | | |
| 5025027 | 152 | 2.1 | 56.8 | 30.0 | 11.1 | 2.11 | 3.91 | 5.51 | 11.55 | 13.89 | 21.94 | 4.06 | 2.68 | | | |
| 5026006 | 154 | 15.5 | 64.7 | 8.4 | 11.3 | 15.54 | 3.38 | 9.46 | 39.37 | 11.27 | 1.25 | 2.24 | 3.05 | | | |
| 5026007 | 154 | 10.7 | 80.8 | 3.5 | 5.0 | 10.71 | 6.38 | 14.06 | 46.80 | 12.66 | 0.88 | 1.59 | 2.24 | | | |
| 5026008 | 154 | 11.8 | 77.0 | 6.3 | 5.0 | 11.75 | 3.44 | 5.63 | 39.43 | 25.94 | 2.51 | 1.99 | 2.33 | | | |
| 5026027 | 154 | 5.6 | 60.9 | 20.1 | 13.4 | 5.63 | 3.55 | 7.27 | 16.71 | 20.23 | 13.13 | 3.56 | 2.97 | | | |
| 5027006 | 155 | 5.0 | 87.8 | 2.5 | 4.7 | 5.02 | 2.32 | 3.40 | 17.75 | 53.06 | 11.27 | 2.49 | 1.93 | | | |
| 5027007 | 155 | 2.1 | 92.8 | 1.5 | 3.7 | 2.06 | 3.73 | 7.17 | 31.14 | 44.85 | 5.90 | 2.20 | 1.72 | | | |
| 5027008 | 155 | 1.9 | 89.4 | 2.7 | 6.1 | 1.89 | 3.01 | 5.56 | 33.50 | 41.68 | 5.59 | 2.43 | 2.02 | | | |
| 5027027 | 155 | 5.1 | 91.0 | 1.8 | 2.1 | 5.12 | 6.96 | 12.48 | 43.69 | 25.37 | 2.48 | 1.62 | 1.66 | | | |
| 5028006 | 202 | 10.0 | 71.8 | 10.0 | 8.2 | 10.03 | 3.00 | 3.27 | 13.89 | 38.57 | 13.07 | 2.82 | 2.62 | | | |
| 5028007 | 202 | 7.8 | 67.0 | 12.0 | 13.2 | 7.84 | 3.50 | 4.23 | 14.62 | 32.06 | 12.59 | 3.25 | 2.91 | | | |
| 5028008 | 202 | 10.8 | 63.9 | 12.8 | 12.5 | 10.79 | 2.96 | 3.20 | 10.91 | 34.38 | 12.45 | 3.19 | 2.95 | | | |
| 5028027 | 202 | 11.7 | 86.1 | 1.1 | 1.1 | 11.73 | 9.21 | 40.96 | 33.11 | 2.52 | 0.72 | 1.45 | | | | |
| 5029006 | 204 | 32.6 | 43.6 | 12.3 | 11.5 | 32.57 | 0.98 | 2.09 | 20.30 | 17.36 | 2.87 | 2.13 | 3.44 | | | |
| 5029007 | 204 | 8.4 | 70.8 | 11.0 | 9.8 | 8.41 | 3.67 | 6.74 | 35.72 | 21.63 | 3.00 | 2.61 | 2.79 | | | |
| 5029008 | 204 | 5.9 | 43.0 | 27.9 | 23.2 | 5.93 | 0.68 | 2.20 | 17.46 | 19.15 | 3.56 | 4.54 | 3.22 | | | |
| 5029027 | 204 | 11.2 | 66.4 | 14.8 | 7.6 | 11.25 | 3.90 | 6.87 | 27.10 | 22.95 | 5.59 | 2.59 | 2.78 | | | |
| 5030006 | 207 | 0.9 | 49.9 | 34.8 | 14.4 | 0.94 | 1.37 | 1.00 | 6.98 | 20.57 | 19.95 | 4.68 | 2.48 | | | |
| 5030007 | 207 | 0.0 | 42.6 | 40.2 | 17.2 | 0.00 | 0.41 | 1.83 | 6.33 | 16.08 | 17.91 | 5.09 | 2.41 | | | |
| 5030008 | 207 | 0.1 | 50.5 | 33.3 | 16.1 | 0.07 | 1.26 | 2.59 | 6.00 | 20.88 | 19.77 | 4.76 | 2.50 | | | |
| 5030027 | 207 | 0.1 | 46.3 | 39.9 | 13.7 | 0.10 | 0.47 | 1.36 | 5.32 | 20.15 | 19.05 | 4.88 | 2.32 | | | |
| 5031006 | 208 | 2.1 | 88.3 | 4.7 | 4.9 | 2.11 | 2.94 | 13.37 | 35.71 | 30.38 | 5.89 | 2.24 | 2.03 | | | |
| 5031007 | 208 | 0.9 | 90.2 | 4.7 | 4.2 | 0.88 | 2.50 | 11.26 | 34.19 | 35.00 | 7.29 | 2.33 | 1.88 | | | |
| 5031008 | 208 | 2.1 | 93.0 | 2.5 | 2.4 | 2.07 | 4.51 | 17.34 | 37.27 | 27.26 | 6.63 | 1.88 | | | | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station | No. | Gravel | Sand | Silt | Clay | PHI PERCENT | | | | | | Mean | Std Dev |
|------------|---------|------|--------|------|------|-------|-------------|-------|-------|-------|-------|------|------|---------|
| | | | | | | | <1 | 1 | 2 | 3 | 4 | | | |
| 5031027(A) | 208 | 2.5 | 90.6 | 4.2 | 2.7 | 2.51 | 3.06 | 12.55 | 33.67 | 33.73 | 7.59 | 2.12 | 1.76 | |
| 5031027(B) | 208 | 1.7 | 91.6 | 3.8 | 3.0 | 1.66 | 3.07 | 13.15 | 32.79 | 33.45 | 9.12 | 2.17 | 1.76 | |
| 5031027(C) | 208 | 1.2 | 91.6 | 4.3 | 2.9 | 1.22 | 3.05 | 12.57 | 34.42 | 34.53 | 7.06 | 2.17 | 1.74 | |
| 5032006 | 211 | 3.0 | 36.1 | 39.7 | 21.1 | 3.02 | 1.62 | 3.38 | 7.50 | 11.70 | 11.92 | 5.07 | 2.85 | |
| 5032007 | 211 | 1.7 | 37.7 | 39.1 | 21.6 | 1.67 | 2.76 | 3.53 | 7.38 | 12.45 | 11.56 | 5.09 | 2.83 | |
| 5032008 | 211 | 1.0 | 30.4 | 46.5 | 22.2 | 0.99 | 2.71 | 3.28 | 4.60 | 8.54 | 11.25 | 5.45 | 2.66 | |
| 5032027 | 211 | 2.8 | 26.1 | 47.6 | 23.6 | 2.76 | 3.30 | 2.56 | 3.70 | 7.00 | 9.55 | 5.49 | 2.79 | |
| 5033006 | 212 | 37.6 | 14.4 | 26.8 | 21.1 | 37.61 | 0.84 | 1.99 | 3.98 | 4.66 | 2.98 | 3.23 | 4.23 | |
| 5033007 | 212 | 1.8 | 31.3 | 43.8 | 23.2 | 1.77 | 1.85 | 2.95 | 7.08 | 12.05 | 7.33 | 5.36 | 2.78 | |
| 5033008 | 212 | 0.3 | 35.8 | 41.0 | 22.8 | 0.33 | 4.06 | 5.97 | 7.71 | 9.29 | 8.79 | 5.17 | 2.89 | |
| 5033027 | 212 | 1.4 | 32.8 | 37.8 | 28.1 | 1.37 | 3.15 | 3.97 | 7.38 | 10.58 | 7.73 | 5.42 | 2.96 | |
| 5034006 | 216 | 12.1 | 46.9 | 24.8 | 16.1 | 12.12 | 4.31 | 5.97 | 13.61 | 12.75 | 10.28 | 3.65 | 3.37 | |
| 5034007 | 216 | 6.6 | 76.1 | 10.6 | 6.7 | 6.61 | 5.19 | 13.91 | 29.17 | 19.71 | 8.14 | 2.40 | 2.56 | |
| 5034008 | 216 | 16.0 | 38.2 | 27.1 | 18.8 | 15.95 | 4.91 | 5.32 | 9.90 | 10.39 | 7.69 | 3.75 | 3.61 | |
| 5034027 | 216 | 11.2 | 63.7 | 17.0 | 8.1 | 11.23 | 4.72 | 11.82 | 23.54 | 15.80 | 7.79 | 2.63 | 2.91 | |
| 5035006 | 217 | 0.4 | 29.1 | 43.7 | 26.8 | 0.35 | 4.50 | 6.97 | 6.35 | 6.52 | 4.76 | 5.47 | 2.95 | |
| 5035007 | 217 | 0.0 | 25.1 | 45.0 | 30.0 | 0.00 | 6.10 | 5.32 | 4.88 | 4.10 | 4.66 | 5.73 | 2.93 | |
| 5035008 | 217 | 0.3 | 19.5 | 48.4 | 31.8 | 0.32 | 0.43 | 2.56 | 4.26 | 6.71 | 5.54 | 6.20 | 2.45 | |
| 5035027 | 217 | 1.3 | 25.5 | 46.7 | 26.5 | 1.33 | 6.34 | 4.96 | 4.67 | 5.13 | 4.38 | 5.51 | 2.99 | |
| 5036006 | 218 | 9.3 | 83.6 | 4.0 | 3.1 | 9.29 | 8.11 | 14.59 | 33.04 | 15.51 | 2.36 | 1.63 | 2.05 | |
| 5036007 | 218 | 12.2 | 82.9 | 2.7 | 2.1 | 12.23 | 7.90 | 13.36 | 33.74 | 25.16 | 2.79 | 1.43 | 1.91 | |
| 5036008 | 218 | 10.8 | 82.2 | 4.1 | 2.9 | 10.78 | 7.04 | 13.60 | 33.54 | 25.41 | 2.57 | 1.61 | 2.05 | |
| 5036027(A) | 218 | 6.5 | 83.3 | 5.5 | 4.6 | 6.52 | 6.18 | 12.92 | 34.07 | 27.66 | 2.48 | 1.97 | 2.20 | |
| 5036027(B) | 218 | 7.7 | 83.0 | 4.3 | 4.9 | 7.74 | 6.74 | 14.22 | 30.69 | 24.94 | 6.44 | 1.93 | 2.25 | |
| 5036027(C) | 218 | 6.9 | 85.0 | 4.3 | 3.7 | 6.91 | 6.51 | 13.46 | 35.11 | 27.80 | 2.16 | 1.82 | 2.06 | |
| 5037006 | 220 | 13.2 | 51.6 | 19.9 | 15.2 | 13.24 | 3.69 | 5.85 | 17.08 | 18.08 | 6.93 | 3.33 | 3.33 | |
| 5037007 | 220 | 6.1 | 55.7 | 24.9 | 13.3 | 6.09 | 4.28 | 6.48 | 14.31 | 17.72 | 12.90 | 3.72 | 3.01 | |
| 5037008 | 220 | 34.5 | 40.7 | 12.6 | 12.2 | 34.47 | 4.48 | 5.12 | 13.30 | 12.98 | 4.86 | 2.04 | 3.58 | |
| 5037027 | 220 | 5.9 | 59.7 | 22.5 | 12.0 | 5.92 | 7.68 | 9.69 | 14.39 | 15.53 | 12.38 | 3.38 | 3.05 | |
| 5038006 | 221 | 0.0 | 35.4 | 42.4 | 22.2 | 0.00 | 4.91 | 4.82 | 6.55 | 9.25 | 9.83 | 5.22 | 2.83 | |
| 5038007 | 221 | 0.0 | 33.9 | 46.5 | 19.7 | 0.00 | 4.23 | 5.55 | 7.23 | 7.14 | 9.70 | 5.19 | 2.74 | |
| 5038008 | 221 | 0.0 | 25.3 | 50.6 | 24.1 | 0.00 | 3.52 | 3.77 | 4.67 | 6.30 | 7.04 | 5.68 | 2.62 | |
| 5038027(A) | 221 | 0.0 | 24.5 | 50.3 | 25.2 | 0.00 | 0.39 | 3.02 | 4.85 | 6.43 | 9.84 | 5.88 | 2.39 | |
| 5038027(B) | 221 | 0.5 | 26.6 | 46.7 | 26.2 | 0.47 | 3.07 | 4.14 | 4.61 | 5.32 | 9.45 | 5.70 | 2.69 | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | BENTONITE PERCENT | | | | | | Mean Dev |
|------------|-------------|-------------------|------|------|--------|-------|---------|----------|
| | | Clay | Silt | Sand | Gravel | No. | Std Dev | |
| 5038027(C) | 221 | 0.0 | 27.8 | 49.2 | 23.0 | 0.00 | 1.72 | 5.29 |
| 5039006 | 222 | 0.9 | 47.9 | 24.3 | 18.9 | 8.89 | 4.78 | 7.36 |
| 5039007 | 222 | 10.8 | 57.5 | 16.6 | 15.1 | 10.84 | 6.99 | 9.75 |
| 5039008 | 222 | 14.1 | 50.7 | 20.8 | 14.3 | 14.06 | 7.06 | 8.30 |
| 5039027 | 222 | 18.5 | 43.5 | 23.1 | 14.9 | 18.49 | 9.02 | 9.80 |
| 5040006 | 224 | 3.7 | 18.4 | 44.3 | 33.5 | 3.74 | 0.58 | 2.16 |
| 5040007 | 224 | 2.4 | 19.6 | 48.4 | 29.7 | 2.38 | 0.97 | 2.81 |
| 5040008 | 224 | 2.5 | 20.7 | 53.7 | 23.0 | 2.53 | 0.84 | 2.34 |
| 5040027 | 224 | 0.8 | 32.3 | 43.4 | 23.5 | 0.84 | 2.72 | 4.25 |
| 5041006 | 225 | 2.6 | 31.5 | 39.7 | 26.2 | 2.62 | 5.64 | 4.03 |
| 5041007 | 225 | 15.7 | 45.4 | 21.7 | 17.2 | 15.66 | 4.80 | 5.51 |
| 5041008 | 225 | 1.3 | 54.7 | 22.7 | 21.2 | 1.35 | 7.42 | 6.41 |
| 5041027 | 225 | 3.7 | 43.9 | 31.9 | 20.4 | 3.73 | 8.51 | 5.22 |
| 5042006 | 226 | 1.0 | 32.6 | 40.6 | 25.8 | 0.99 | 5.80 | 7.64 |
| 5042007 | 226 | 0.8 | 35.2 | 40.3 | 23.7 | 0.84 | 6.39 | 6.64 |
| 5042008 | 226 | 0.0 | 30.6 | 40.6 | 28.8 | 0.00 | 3.82 | 7.95 |
| 5042027 | 226 | 0.0 | 16.5 | 51.2 | 32.3 | 0.00 | 1.44 | 3.53 |
| 5042028 | 226 | 0.0 | 23.9 | 49.5 | 26.6 | 0.00 | 4.44 | 4.44 |
| 5043006 | 227 | 0.3 | 44.9 | 37.3 | 17.5 | 0.32 | 1.46 | 3.81 |
| 5043007 | 227 | 2.5 | 46.5 | 32.3 | 18.8 | 2.47 | 2.93 | 3.39 |
| 5043008 | 227 | 0.2 | 54.7 | 29.5 | 15.6 | 0.25 | 2.03 | 2.46 |
| 5043027(A) | 227 | 0.9 | 47.9 | 34.9 | 16.3 | 0.88 | 2.12 | 2.71 |
| 5043027(B) | 227 | 0.7 | 48.4 | 34.8 | 16.0 | 0.74 | 1.93 | 2.67 |
| 5043027(C) | 227 | 1.2 | 46.6 | 35.5 | 16.8 | 1.24 | 1.41 | 2.32 |
| 5044006 | 230 | 2.5 | 60.4 | 23.1 | 13.9 | 2.54 | 5.54 | 9.23 |
| 5044007 | 230 | 11.6 | 52.6 | 21.6 | 14.2 | 11.55 | 5.03 | 7.36 |
| 5044008 | 230 | 2.0 | 55.3 | 25.9 | 16.8 | 1.96 | 3.85 | 7.43 |
| 5044027(A) | 230 | 2.5 | 58.9 | 25.1 | 13.6 | 2.47 | 6.07 | 9.58 |
| 5044027(B) | 230 | 1.0 | 57.9 | 25.1 | 16.0 | 1.02 | 5.55 | 9.12 |
| 5044027(C) | 230 | 5.3 | 54.8 | 25.3 | 14.5 | 5.31 | 5.38 | 8.98 |
| 5045006 | 231 | 6.4 | 57.8 | 24.2 | 11.6 | 6.40 | 4.83 | 8.27 |
| 5045007 | 231 | 1.8 | 24.3 | 49.0 | 24.8 | 1.84 | 3.48 | 3.68 |
| 5045008 | 231 | 1.8 | 17.0 | 52.3 | 28.9 | 1.82 | 2.99 | 4.03 |
| 5045027 | 231 | 1.0 | 23.4 | 49.5 | 26.1 | 1.03 | 4.11 | 2.62 |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | Sediment | | | PHI PERCENT | | | % | | | Mean Dev | | | Std Dev |
|------------|-------------|----------|------|------|-------------|-------|-------|-------|-------|-------|----------|------|------|---------|
| | | Sand | Silt | Clay | -1 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| 5046006 | 235 | 2.8 | 19.4 | 47.1 | 30.7 | 2.83 | 1.62 | 3.91 | 3.24 | 4.45 | 6.20 | 5.93 | 2.79 | |
| 5046007 | 235 | 0.1 | 21.9 | 49.5 | 28.5 | 0.13 | 3.90 | 5.24 | 3.49 | 4.17 | 5.11 | 5.87 | 2.72 | |
| 5046008 | 235 | 4.4 | 28.6 | 43.6 | 23.4 | 4.42 | 6.21 | 4.42 | 4.21 | 7.06 | 6.74 | 5.12 | 3.15 | |
| 5046027(A) | 235 | 6.1 | 25.0 | 42.4 | 26.5 | 6.11 | 9.21 | 3.30 | 2.60 | 4.81 | 5.11 | 5.14 | 3.38 | |
| 5046027(B) | 235 | 3.7 | 24.6 | 42.0 | 29.7 | 3.71 | 6.84 | 3.36 | 3.01 | 5.33 | 6.02 | 5.51 | 3.17 | |
| 5046027(C) | 235 | 5.6 | 23.5 | 42.2 | 28.7 | 5.63 | 6.88 | 3.33 | 3.44 | 4.58 | 5.31 | 5.36 | 3.29 | |
| 5047006 | 236 | 25.1 | 38.3 | 20.9 | 15.6 | 25.14 | 5.96 | 6.62 | 9.34 | 7.72 | 8.68 | 2.92 | 3.74 | |
| 5047007 | 236 | 11.9 | 44.1 | 24.8 | 19.2 | 11.91 | 5.73 | 3.22 | 4.84 | 11.73 | 18.54 | 4.04 | 3.40 | |
| 5047008 | 236 | 14.8 | 52.0 | 20.4 | 12.9 | 14.77 | 4.00 | 3.59 | 7.53 | 15.35 | 21.53 | 3.41 | 3.20 | |
| 5047027 | 236 | 6.4 | 35.0 | 36.9 | 21.7 | 6.45 | 7.32 | 3.49 | 5.63 | 7.84 | 10.69 | 4.70 | 3.29 | |
| 5048006 | 237 | 9.5 | 43.8 | 29.9 | 16.8 | 9.50 | 7.29 | 6.96 | 10.65 | 9.42 | 9.50 | 3.89 | 3.39 | |
| 5048007 | 237 | 44.2 | 35.6 | 11.7 | 8.5 | 44.23 | 11.50 | 9.50 | 8.16 | 4.28 | 2.14 | 1.10 | 3.41 | |
| 5048008 | 237 | 43.4 | 41.8 | 6.8 | 8.0 | 43.37 | 18.95 | 11.85 | 7.29 | 2.74 | 0.95 | 0.66 | 3.17 | |
| 5048027 | 237 | 21.5 | 57.8 | 13.4 | 7.3 | 21.48 | 14.55 | 15.03 | 15.31 | 8.08 | 4.86 | 1.74 | 3.11 | |
| 5049006 | 240 | 1.6 | 23.3 | 46.7 | 28.4 | 1.61 | 6.99 | 3.67 | 2.98 | 4.13 | 5.50 | 5.66 | 2.98 | |
| 5049007 | 240 | 5.5 | 27.4 | 43.4 | 23.7 | 5.50 | 9.39 | 4.53 | 4.75 | 4.10 | 4.64 | 4.96 | 3.35 | |
| 5049008 | 240 | 1.4 | 24.9 | 43.5 | 30.2 | 1.40 | 7.47 | 5.14 | 2.65 | 3.27 | 6.38 | 5.64 | 3.07 | |
| 5049027 | 240 | 5.9 | 24.8 | 42.1 | 27.2 | 5.91 | 7.56 | 3.58 | 2.71 | 5.13 | 5.81 | 5.24 | 3.32 | |
| 5050006 | 241 | 20.8 | 53.5 | 15.7 | 9.9 | 20.85 | 6.82 | 7.85 | 15.11 | 13.83 | 9.91 | 2.45 | 3.26 | |
| 5050007 | 241 | 11.0 | 48.9 | 25.2 | 14.9 | 11.04 | 5.83 | 6.44 | 14.35 | 13.90 | 8.41 | 3.54 | 3.32 | |
| 5050008 | 241 | 18.2 | 52.3 | 17.9 | 11.5 | 18.24 | 7.47 | 9.53 | 14.69 | 12.78 | 7.83 | 2.66 | 3.35 | |
| 5050027 | 241 | 18.9 | 50.2 | 20.2 | 10.7 | 18.87 | 6.72 | 7.47 | 15.50 | 13.04 | 7.44 | 2.72 | 3.33 | |
| 5051006 | 242 | 13.3 | 65.0 | 13.3 | 8.3 | 13.34 | 3.97 | 3.92 | 11.10 | 24.77 | 21.28 | 2.88 | 2.82 | |
| 5051007 | 242 | 6.8 | 71.6 | 13.7 | 7.8 | 6.83 | 3.27 | 4.57 | 13.49 | 28.22 | 22.10 | 3.11 | 2.56 | |
| 5051008 | 242 | 16.0 | 56.9 | 16.0 | 11.1 | 16.02 | 3.94 | 3.87 | 8.98 | 22.09 | 18.02 | 3.04 | 3.12 | |
| 5051027 | 242 | 8.4 | 67.0 | 16.3 | 8.3 | 8.37 | 2.82 | 4.36 | 11.18 | 27.42 | 21.22 | 3.21 | 2.66 | |
| 5052006 | 245 | 14.2 | 79.6 | 3.4 | 2.8 | 14.17 | 11.15 | 18.81 | 28.21 | 17.12 | 4.35 | 1.29 | 2.12 | |
| 5052007 | 245 | 9.1 | 84.6 | 3.4 | 2.9 | 9.10 | 8.63 | 22.78 | 33.64 | 13.75 | 5.79 | 1.45 | 2.02 | |
| 5052008 | 245 | 11.3 | 67.8 | 13.1 | 7.8 | 11.31 | 5.21 | 10.00 | 22.37 | 20.34 | 9.87 | 2.53 | 2.81 | |
| 5052027 | 245 | 10.8 | 80.0 | 4.9 | 4.3 | 10.84 | 8.21 | 17.84 | 28.94 | 18.20 | 6.82 | 1.69 | 2.30 | |
| 5054006 | 247 | 1.3 | 71.8 | 18.1 | 8.8 | 1.27 | 2.31 | 1.85 | 12.07 | 29.45 | 26.10 | 3.69 | 2.32 | |
| 5054007 | 247 | 0.7 | 76.7 | 16.2 | 6.5 | 0.72 | 0.80 | 2.55 | 15.65 | 29.68 | 27.98 | 3.51 | 2.10 | |
| 5054008 | 247 | 0.7 | 78.3 | 13.9 | 7.1 | 0.72 | 5.52 | 5.85 | 14.35 | 27.27 | 25.28 | 3.25 | 2.32 | |
| 5054027 | 247 | 0.2 | 70.9 | 20.3 | 8.6 | 0.24 | 6.32 | 5.43 | 12.03 | 23.34 | 23.74 | 3.58 | 2.48 | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | Gravel | | | Sand | | | Silt | | | Clay | | | PERCENT D.H. | Mean | Std Dev |
|------------|-------------|--------|------|------|------|-------|------|-------|-------|-------|-------|------|------|-----------------|------|---------|
| | | % | % | % | % | % | % | % | % | % | % | % | % | | | |
| 5055006 | 249 | 3.4 | 87.0 | 6.0 | 3.6 | 3.39 | 3.50 | 11.89 | 25.02 | 29.73 | 16.89 | 2.38 | 2.00 | | | |
| 5055007 | 249 | 2.6 | 85.8 | 6.0 | 5.6 | 2.61 | 5.82 | 15.22 | 22.73 | 25.94 | 16.09 | 2.42 | 2.25 | | | |
| 5055008 | 249 | 4.3 | 82.3 | 8.3 | 5.1 | 4.32 | 5.73 | 14.27 | 21.86 | 26.77 | 13.68 | 2.41 | 2.30 | | | |
| 5055027 | 249 | 4.7 | 80.4 | 9.1 | 5.7 | 4.67 | 3.90 | 7.53 | 13.71 | 24.91 | 30.40 | 2.91 | 2.29 | | | |
| 5056006 | 250 | 0.6 | 8.5 | 74.4 | 16.5 | 0.57 | 1.56 | 1.37 | 1.42 | 1.79 | 2.36 | 6.09 | 1.88 | | | |
| 5056007 | 250 | 4.7 | 86.0 | 5.1 | 4.1 | 4.75 | 9.81 | 31.02 | 41.32 | 3.32 | 0.51 | 1.44 | 2.13 | | | |
| 5056008 | 250 | 6.3 | 34.8 | 34.3 | 24.6 | 6.30 | 9.51 | 5.53 | 5.75 | 6.74 | 7.30 | 4.67 | 3.48 | | | |
| 5056027 | 250 | 0.2 | 51.9 | 29.5 | 18.4 | 0.20 | 3.74 | 11.80 | 11.30 | 13.07 | 11.99 | 4.38 | 2.99 | | | |
| 5057006 | 253 | 0.9 | 77.0 | 15.1 | 7.1 | 0.87 | 2.19 | 5.56 | 20.95 | 31.84 | 16.44 | 3.23 | 2.29 | | | |
| 5057007 | 253 | 2.9 | 67.9 | 20.4 | 8.9 | 2.90 | 2.19 | 4.27 | 18.31 | 28.23 | 14.85 | 3.49 | 2.54 | | | |
| 5057008 | 253 | 8.6 | 59.4 | 19.1 | 12.8 | 8.61 | 1.41 | 3.64 | 15.32 | 26.82 | 12.25 | 3.51 | 2.94 | | | |
| 5057027 | 253 | 10.3 | 55.0 | 27.2 | 7.4 | 10.35 | 3.12 | 4.45 | 13.50 | 21.13 | 12.79 | 3.33 | 2.86 | | | |
| 5058006 | 304 | 8.0 | 85.1 | 4.0 | 2.9 | 8.04 | 3.92 | 13.03 | 36.61 | 26.51 | 4.99 | 1.81 | 1.96 | | | |
| 5058007 | 304 | 6.5 | 82.7 | 6.7 | 4.1 | 6.46 | 2.82 | 11.05 | 34.59 | 28.97 | 5.29 | 2.14 | 2.13 | | | |
| 5058008 | 304 | 22.6 | 59.9 | 11.5 | 6.1 | 22.55 | 2.05 | 3.78 | 21.26 | 28.07 | 4.72 | 2.09 | 2.83 | | | |
| 5058027 | 304 | 8.3 | 81.7 | 7.0 | 3.0 | 8.31 | 1.66 | 6.55 | 29.93 | 36.58 | 6.96 | 2.20 | 2.04 | | | |
| 5060006 | 306 | 7.9 | 92.1 | 0.0 | 0.0 | 7.90 | 2.70 | 8.42 | 65.25 | 14.65 | 1.07 | 1.29 | 1.02 | | | |
| 5060007 | 306 | 3.9 | 96.1 | 0.0 | 0.0 | 3.90 | 2.92 | 9.83 | 66.22 | 15.66 | 1.48 | 1.41 | 0.88 | | | |
| 5060008 | 306 | 3.1 | 96.9 | 0.0 | 0.0 | 3.07 | 1.60 | 7.39 | 67.63 | 18.77 | 1.54 | 1.52 | 0.81 | | | |
| 5060027(A) | 306 | 4.3 | 95.7 | 0.0 | 0.0 | 4.29 | 2.26 | 7.88 | 69.70 | 15.02 | 0.85 | 1.41 | 0.86 | | | |
| 5060027(B) | 306 | 3.2 | 96.8 | 0.0 | 0.0 | 3.21 | 2.01 | 7.01 | 71.15 | 15.29 | 1.33 | 1.47 | 0.80 | | | |
| 5060027(C) | 306 | 6.8 | 93.3 | 0.0 | 0.0 | 6.81 | 2.14 | 7.61 | 66.44 | 15.94 | 1.06 | 1.36 | 0.98 | | | |
| 5061006 | 309 | 0.1 | 28.8 | 53.9 | 17.3 | 0.09 | 4.26 | 4.26 | 3.64 | 4.44 | 12.17 | 5.38 | 2.52 | | | |
| 5061007 | 309 | 0.0 | 22.7 | 59.9 | 17.4 | 0.00 | 1.22 | 2.62 | 2.54 | 3.59 | 12.77 | 5.74 | 2.14 | | | |
| 5061008 | 309 | 0.1 | 25.9 | 58.0 | 16.0 | 0.08 | 1.22 | 1.63 | 2.45 | 4.57 | 16.01 | 5.63 | 2.10 | | | |
| 5061027 | 309 | 0.0 | 21.6 | 60.7 | 17.7 | 0.00 | 0.00 | 0.57 | 1.23 | 3.69 | 16.08 | 5.91 | 1.86 | | | |
| 5062006 | 310 | 10.0 | 50.3 | 32.8 | 6.9 | 10.01 | 4.17 | 6.59 | 11.79 | 11.38 | 16.40 | 3.48 | 2.91 | | | |
| 5062007 | 310 | 4.1 | 55.0 | 35.2 | 5.7 | 4.10 | 2.60 | 5.99 | 15.78 | 11.89 | 18.73 | 3.77 | 2.56 | | | |
| 5062008 | 310 | 7.0 | 56.5 | 30.2 | 6.4 | 6.95 | 2.81 | 5.90 | 13.31 | 13.59 | 20.86 | 3.57 | 2.68 | | | |
| 5062027 | 310 | 12.7 | 54.4 | 26.2 | 6.7 | 12.67 | 4.85 | 8.34 | 15.29 | 12.14 | 13.78 | 3.02 | 2.98 | | | |
| 5063006 | 311 | 4.5 | 92.1 | 1.5 | 1.8 | 4.51 | 5.61 | 14.07 | 44.72 | 26.64 | 1.10 | 1.61 | 1.55 | | | |
| 5063007 | 311 | 5.6 | 90.4 | 1.7 | 2.3 | 5.59 | 3.80 | 10.09 | 42.11 | 33.12 | 1.32 | 1.76 | 1.64 | | | |
| 5063008 | 311 | 3.9 | 92.5 | 1.0 | 2.6 | 3.92 | 4.87 | 11.39 | 40.30 | 34.33 | 1.61 | 1.78 | 1.62 | | | |
| 5063027(A) | 311 | 11.6 | 84.4 | 1.5 | 2.4 | 11.64 | 6.17 | 11.27 | 36.81 | 28.65 | 1.55 | 1.48 | | | | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | Sediment Size (%) | | | PERCENT (%) | | | PHILLIPS (%) | | | MEAN (%) | | | Std Dev |
|------------|-------------|-------------------|------|------|-------------|-------|-------|--------------|-------|-------|----------|------|------|---------|
| | | Silt | Sand | Clay | <1 | 0 | >1 | 0 | >1 | 0 | >1 | 0 | >1 | |
| 5063027(B) | 311 | 10.1 | 86.5 | 1.3 | 2.0 | 10.09 | 6.78 | 12.70 | 36.89 | 28.79 | 1.40 | 1.46 | 1.75 | |
| 5063027(C) | 311 | 8.5 | 88.0 | 1.4 | 2.1 | 8.51 | 7.10 | 11.75 | 40.20 | 27.61 | 1.30 | 1.51 | 1.72 | |
| 5071006 | 311 | 0.5 | 24.1 | 47.0 | 28.4 | 0.47 | 2.54 | 4.08 | 5.62 | 4.91 | 6.98 | 5.83 | 2.70 | |
| 5064006 | 317 | 1.0 | 34.9 | 44.4 | 19.7 | 1.00 | 9.00 | 6.15 | 4.54 | 4.77 | 10.39 | 4.96 | 3.01 | |
| 5064007 | 317 | 0.0 | 27.0 | 49.2 | 23.7 | 0.00 | 2.48 | 7.21 | 4.63 | 3.87 | 8.82 | 5.59 | 2.68 | |
| 5064008 | 317 | 0.9 | 36.9 | 43.0 | 19.1 | 0.91 | 3.49 | 5.44 | 4.47 | 6.63 | 16.89 | 5.12 | 2.71 | |
| 5064027 | 317 | 2.9 | 29.4 | 49.9 | 17.7 | 2.95 | 1.75 | 7.27 | 4.79 | 4.42 | 11.14 | 5.15 | 2.77 | |
| 5065006 | 318 | 15.7 | 80.4 | 1.8 | 2.2 | 15.65 | 3.92 | 16.44 | 42.79 | 15.35 | 1.88 | 1.22 | 1.86 | |
| 5065007 | 318 | 18.0 | 78.7 | 1.4 | 1.9 | 17.99 | 2.74 | 15.57 | 41.66 | 16.07 | 2.64 | 1.17 | 1.85 | |
| 5065008 | 318 | 10.6 | 86.8 | 0.7 | 1.8 | 10.62 | 4.25 | 14.69 | 45.61 | 20.37 | 1.92 | 1.36 | 1.64 | |
| 5065027 | 318 | 11.4 | 86.6 | 0.8 | 1.2 | 11.43 | 4.23 | 14.78 | 45.32 | 20.01 | 2.23 | 1.30 | 1.56 | |
| 5065028(A) | 318 | 14.8 | 83.3 | 0.6 | 1.3 | 14.82 | 5.16 | 21.43 | 41.54 | 14.02 | 1.18 | 1.02 | 1.60 | |
| 5065028(B) | 318 | 14.1 | 84.0 | 0.4 | 1.5 | 14.09 | 4.94 | 21.54 | 42.31 | 14.18 | 1.01 | 1.06 | 1.62 | |
| 5065028(C) | 318 | 14.9 | 83.3 | 0.5 | 1.3 | 14.93 | 5.19 | 21.85 | 42.06 | 13.25 | 0.92 | 1.00 | 1.59 | |
| 5066006 | 323 | 18.0 | 26.7 | 42.0 | 13.3 | 18.04 | 1.57 | 1.71 | 3.28 | 6.20 | 13.91 | 4.14 | 3.37 | |
| 5066007 | 323 | 20.6 | 34.9 | 34.8 | 9.8 | 20.61 | 3.20 | 7.00 | 7.10 | 7.45 | 10.11 | 3.32 | 3.43 | |
| 5066008 | 323 | 9.2 | 47.0 | 34.4 | 9.5 | 9.16 | 4.02 | 5.82 | 10.16 | 10.56 | 16.42 | 3.78 | 2.99 | |
| 5066027 | 323 | 3.6 | 42.0 | 41.9 | 12.6 | 3.57 | 3.13 | 4.89 | 9.29 | 10.12 | 14.57 | 4.50 | 2.78 | |
| 5067006 | 324 | 2.5 | 36.6 | 43.0 | 17.8 | 2.48 | 5.71 | 5.83 | 7.57 | 7.44 | 10.11 | 4.80 | 2.97 | |
| 5067007 | 324 | 1.1 | 36.4 | 43.3 | 19.2 | 1.07 | 5.96 | 5.72 | 6.85 | 7.92 | 9.95 | 4.96 | 2.91 | |
| 5067008 | 324 | 0.3 | 33.7 | 47.1 | 18.9 | 0.27 | 3.68 | 6.74 | 6.95 | 7.56 | 8.79 | 5.14 | 2.75 | |
| 5067027 | 324 | 0.9 | 32.1 | 46.9 | 20.1 | 0.95 | 3.92 | 5.06 | 6.68 | 7.43 | 9.05 | 5.21 | 2.78 | |
| 5068006 | 325 | 1.1 | 32.0 | 52.5 | 14.4 | 1.09 | 2.14 | 3.78 | 5.70 | 8.02 | 12.36 | 5.16 | 2.48 | |
| 5068007 | 325 | 0.0 | 31.4 | 50.4 | 18.2 | 0.00 | 0.42 | 2.04 | 5.23 | 7.75 | 15.93 | 5.50 | 2.28 | |
| 5068008 | 325 | 0.8 | 48.0 | 34.8 | 16.3 | 0.80 | 1.44 | 4.32 | 15.95 | 15.28 | 11.04 | 4.57 | 2.75 | |
| 5068027 | 325 | 0.1 | 38.6 | 44.4 | 16.8 | 0.11 | 0.91 | 3.06 | 12.07 | 12.31 | 10.27 | 5.04 | 2.56 | |
| 5071007 | 331 | 0.3 | 23.9 | 55.7 | 20.1 | 0.32 | 6.12 | 3.97 | 3.81 | 4.13 | 5.88 | 5.50 | 2.68 | |
| 5071008 | 331 | 0.7 | 24.9 | 53.5 | 21.0 | 0.69 | 4.60 | 5.22 | 3.99 | 3.68 | 7.36 | 5.50 | 2.70 | |
| 5071027 | 331 | 0.0 | 22.3 | 57.4 | 20.3 | 0.00 | 4.51 | 4.35 | 3.51 | 3.57 | 6.35 | 5.64 | 2.54 | |
| 5072006 | 332 | 2.6 | 81.6 | 11.4 | 4.4 | 2.57 | 6.09 | 14.43 | 36.90 | 20.80 | 3.35 | 2.28 | 2.27 | |
| 5072007 | 332 | 0.5 | 76.6 | 14.8 | 8.1 | 0.46 | 3.06 | 11.44 | 38.46 | 20.34 | 3.32 | 2.85 | 2.52 | |
| 5072008 | 332 | 0.9 | 77.7 | 14.4 | 7.0 | 0.95 | 2.70 | 12.68 | 38.26 | 21.02 | 3.00 | 2.73 | 2.45 | |
| 5072027 | 332 | 2.7 | 77.9 | 13.3 | 6.0 | 2.73 | 3.81 | 11.08 | 37.50 | 22.71 | 2.82 | 2.57 | 2.41 | |
| 5073006 | 333 | 11.9 | 64.5 | 13.5 | 10.1 | 11.92 | 12.93 | 14.56 | 22.25 | 12.10 | 2.63 | 2.28 | 3.12 | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station No. | % | | | % | | | % | | | % | | | % | | | % | | |
|------------|-------------|--------|------|------|------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|-------|-------|--|
| | | Gravel | Sand | Silt | Clay | <1 | 0-1 | 1-2 | 2-3 | 3-4 | 4-5 | 5-6 | 6-7 | 7-8 | 8-9 | 9-10 | 10-11 | 11-12 | |
| 5073007 | 333 | 26.3 | 64.8 | 5.1 | 3.8 | 26.25 | 25.66 | 14.01 | 17.20 | 6.87 | 1.04 | 0.67 | 0.67 | 0.67 | 0.67 | 0.67 | 2.48 | | |
| 5073008 | 333 | 55.6 | 33.9 | 5.4 | 5.1 | 55.61 | 11.95 | 7.34 | 9.62 | 4.26 | 0.76 | 0.76 | 0.20 | 0.20 | 0.20 | 0.20 | 2.81 | | |
| 5073027(A) | 333 | 29.3 | 62.8 | 4.1 | 3.8 | 29.35 | 22.47 | 15.07 | 18.11 | 6.46 | 0.69 | 0.69 | 0.56 | 0.56 | 0.56 | 0.56 | 2.42 | | |
| 5073027(B) | 333 | 44.6 | 49.9 | 2.7 | 2.9 | 44.61 | 19.09 | 12.10 | 13.47 | 4.79 | 0.42 | 0.42 | 0.05 | 0.05 | 0.05 | 0.05 | 2.24 | | |
| 5073027(C) | 333 | 31.7 | 62.0 | 3.3 | 3.1 | 31.66 | 24.84 | 14.39 | 16.17 | 6.00 | 0.60 | 0.60 | 0.36 | 0.36 | 0.36 | 0.36 | 2.27 | | |
| 5074006 | 334 | 0.9 | 26.4 | 51.4 | 21.3 | 0.89 | 1.66 | 2.16 | 5.16 | 7.39 | 10.00 | 10.00 | 5.61 | 5.61 | 5.61 | 5.61 | 2.49 | | |
| 5074007 | 334 | 0.1 | 23.0 | 51.3 | 25.6 | 0.13 | 1.73 | 3.66 | 4.06 | 5.06 | 8.45 | 8.45 | 5.87 | 5.87 | 5.87 | 5.87 | 2.48 | | |
| 5074008 | 334 | 3.3 | 38.7 | 40.5 | 17.5 | 3.34 | 3.39 | 5.44 | 8.98 | 10.03 | 10.88 | 10.88 | 4.73 | 4.73 | 4.73 | 4.73 | 2.94 | | |
| 5074027 | 334 | 2.9 | 33.9 | 42.1 | 21.1 | 2.92 | 3.18 | 5.17 | 7.89 | 8.55 | 9.15 | 9.15 | 5.04 | 5.04 | 5.04 | 5.04 | 2.96 | | |
| 5075006 | 335 | 12.9 | 82.3 | 2.4 | 2.3 | 12.91 | 3.11 | 12.55 | 47.29 | 18.74 | 0.62 | 0.62 | 1.41 | 1.41 | 1.41 | 1.41 | 1.85 | | |
| 5075007 | 335 | 0.8 | 84.3 | 7.5 | 7.3 | 0.81 | 0.84 | 6.74 | 37.08 | 38.15 | 1.52 | 1.52 | 2.69 | 2.69 | 2.69 | 2.69 | 2.20 | | |
| 5075008 | 335 | 0.9 | 87.6 | 5.4 | 6.1 | 0.91 | 1.72 | 8.93 | 39.19 | 36.34 | 1.42 | 1.42 | 2.44 | 2.44 | 2.44 | 2.44 | 2.07 | | |
| 5075027 | 335 | 10.9 | 78.2 | 5.6 | 5.3 | 10.92 | 4.18 | 8.33 | 28.03 | 35.64 | 2.02 | 2.02 | 2.05 | 2.05 | 2.05 | 2.05 | 2.34 | | |
| 5076006 | 338 | 0.3 | 21.8 | 57.3 | 20.7 | 0.27 | 0.20 | 1.47 | 3.47 | 7.42 | 9.22 | 9.22 | 5.86 | 5.86 | 5.86 | 5.86 | 2.17 | | |
| 5076007 | 338 | 0.0 | 23.7 | 55.9 | 20.4 | 0.00 | 0.00 | 3.69 | 3.86 | 4.81 | 9.27 | 9.27 | 5.70 | 5.70 | 5.70 | 5.70 | 2.38 | | |
| 5076008 | 338 | 0.0 | 24.3 | 58.4 | 17.3 | 0.00 | 1.66 | 2.58 | 3.15 | 4.75 | 12.20 | 12.20 | 5.66 | 5.66 | 5.66 | 5.66 | 2.21 | | |
| 5076027 | 338 | 1.1 | 23.7 | 55.3 | 20.0 | 1.06 | 2.12 | 3.48 | 2.95 | 4.99 | 10.14 | 10.14 | 5.63 | 5.63 | 5.63 | 5.63 | 2.46 | | |
| 5077006 | 339 | 0.0 | 37.6 | 45.9 | 16.4 | 0.00 | 1.55 | 1.55 | 2.30 | 8.98 | 23.26 | 23.26 | 5.31 | 5.31 | 5.31 | 5.31 | 2.27 | | |
| 5077007 | 339 | 0.8 | 29.7 | 49.1 | 20.4 | 0.77 | 2.57 | 2.37 | 2.31 | 6.03 | 16.43 | 16.43 | 5.53 | 5.53 | 5.53 | 5.53 | 2.47 | | |
| 5077008 | 339 | 0.0 | 37.2 | 47.5 | 15.2 | 0.00 | 1.35 | 1.35 | 2.34 | 9.83 | 22.37 | 22.37 | 5.29 | 5.29 | 5.29 | 5.29 | 2.22 | | |
| 5077027 | 339 | 0.4 | 44.3 | 40.7 | 14.6 | 0.38 | 1.80 | 2.24 | 4.42 | 11.63 | 24.19 | 24.19 | 4.96 | 4.96 | 4.96 | 4.96 | 2.39 | | |
| 5078006 | 340 | 0.1 | 22.0 | 59.4 | 18.5 | 0.07 | 1.22 | 1.90 | 2.24 | 3.86 | 12.81 | 12.81 | 5.81 | 5.81 | 5.81 | 5.81 | 2.12 | | |
| 5078007 | 340 | 0.1 | 27.7 | 54.1 | 18.2 | 0.05 | 1.02 | 1.66 | 4.12 | 5.94 | 14.99 | 14.99 | 5.62 | 5.62 | 5.62 | 5.62 | 2.22 | | |
| 5078008 | 340 | 0.5 | 32.3 | 49.5 | 17.8 | 0.46 | 0.40 | 2.12 | 6.07 | 7.96 | 15.75 | 15.75 | 5.41 | 5.41 | 5.41 | 5.41 | 2.35 | | |
| 5078027 | 340 | 0.5 | 27.9 | 52.4 | 19.3 | 0.50 | 0.75 | 1.62 | 4.56 | 7.81 | 13.12 | 13.12 | 5.60 | 5.60 | 5.60 | 5.60 | 2.32 | | |
| 5079006 | 341 | 0.4 | 60.1 | 26.8 | 12.7 | 0.42 | 1.26 | 7.59 | 20.29 | 24.31 | 6.65 | 6.65 | 3.92 | 3.92 | 3.92 | 3.92 | 2.72 | | |
| 5079007 | 341 | 4.0 | 64.4 | 20.3 | 11.3 | 3.96 | 2.52 | 13.24 | 23.92 | 19.99 | 4.74 | 4.74 | 3.26 | 3.26 | 3.26 | 3.26 | 2.90 | | |
| 5079008 | 341 | 0.3 | 68.6 | 19.3 | 11.8 | 0.29 | 2.33 | 12.56 | 25.45 | 23.26 | 4.99 | 4.99 | 3.41 | 3.41 | 3.41 | 3.41 | 2.76 | | |
| 5079027 | 341 | 0.5 | 67.8 | 20.7 | 11.0 | 0.53 | 1.72 | 10.43 | 25.12 | 25.30 | 5.24 | 5.24 | 3.46 | 3.46 | 3.46 | 3.46 | 2.69 | | |
| 5081006 | 345 | 0.0 | 19.0 | 61.5 | 19.5 | 0.00 | 0.32 | 0.91 | 1.88 | 2.42 | 13.44 | 13.44 | 6.01 | 6.01 | 6.01 | 6.01 | 1.92 | | |
| 5081007 | 345 | 0.0 | 14.6 | 67.2 | 18.1 | 0.00 | 0.17 | 0.87 | 1.39 | 1.80 | 10.38 | 10.38 | 6.10 | 6.10 | 6.10 | 6.10 | 1.76 | | |

Appendix 3. Sediment Grain-Size Data for the 1999 New Bedford Harbor Long-Term Monitoring III.

| Sample No. | Station | SILT (%) | | | CLAY (%) | | | SAND (%) | | | GRAVEL (%) | | | PERCENT (%) | | | PHI (%) | | | PERCENT (%) | | | |
|------------|---------|----------|------|------|----------|-------|-------|----------|-------|-------|------------|-------|-------|-------------|-------|-------|---------|-------|-------|-------------|-------|------|------|
| | | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | 1 | 2 | 3 | |
| 5081008 | 345 | 0.1 | 14.8 | 62.6 | 22.6 | 0.06 | 0.78 | 0.96 | 1.02 | 1.32 | 1.16 | 1.32 | 2.76 | 30.72 | 49.62 | 3.06 | 37.96 | 41.56 | 2.02 | 13.43 | 6.11 | 1.92 | |
| 5081027 | 345 | 0.0 | 18.2 | 60.0 | 21.8 | 0.00 | 0.23 | 1.16 | 1.32 | 2.02 | 2.76 | 30.72 | 49.62 | 3.11 | 2.39 | 2.39 | 2.39 | 2.39 | 2.39 | 3.11 | 2.62 | 1.94 | |
| 5082006 | 346 | 1.6 | 86.9 | 7.4 | 4.2 | 1.55 | 0.66 | 0.17 | 0.85 | 0.58 | 0.41 | 0.41 | 0.60 | 1.97 | 5.75 | 35.75 | 40.59 | 40.59 | 2.54 | 2.54 | 3.03 | 2.24 | |
| 5082007 | 346 | 0.2 | 85.8 | 8.1 | 5.9 | 0.17 | 0.85 | 0.04 | 1.43 | 2.64 | 1.14 | 1.14 | 2.21 | 4.27 | 6.98 | 5.19 | 5.19 | 5.19 | 5.19 | 5.19 | 2.72 | 2.02 | |
| 5082008 | 346 | 0.4 | 79.9 | 12.0 | 7.7 | 0.41 | 0.58 | 0.25 | 0.58 | 0.58 | 0.41 | 0.41 | 0.60 | 1.97 | 5.75 | 41.18 | 41.18 | 41.18 | 41.18 | 41.18 | 41.18 | 2.52 | 1.85 |
| 5082027 | 346 | 0.6 | 86.5 | 9.1 | 3.7 | 0.60 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | |
| 5083006 | 349 | 0.1 | 52.7 | 37.4 | 9.8 | 0.14 | 0.14 | 0.14 | 2.21 | 4.27 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | 6.98 | |
| 5083007 | 349 | 0.0 | 46.6 | 41.9 | 11.4 | 0.04 | 0.04 | 0.04 | 1.43 | 2.64 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | 4.65 | |
| 5083008 | 349 | 0.1 | 48.1 | 42.7 | 9.2 | 0.11 | 0.11 | 0.11 | 1.16 | 3.12 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | 4.53 | |
| 5083027 | 349 | 0.2 | 49.9 | 39.4 | 10.5 | 0.16 | 0.16 | 0.16 | 1.11 | 1.90 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | 3.98 | |
| 5085006 | 352 | 19.8 | 66.9 | 8.7 | 4.6 | 19.82 | 15.95 | 23.22 | 20.60 | 20.60 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | 5.01 | |
| 5085007 | 352 | 30.8 | 51.1 | 11.3 | 6.8 | 30.85 | 13.70 | 17.26 | 14.87 | 14.87 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | 2.83 | |
| 5085008 | 352 | 71.3 | 23.3 | 2.9 | 2.5 | 71.29 | 11.16 | 7.37 | 3.55 | 3.55 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | 0.89 | |
| 5085027 | 352 | 40.6 | 53.3 | 3.4 | 2.6 | 40.65 | 14.66 | 19.24 | 15.26 | 15.26 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | 3.11 | |

APPENDIX 4

TOC 1999 NEW BEDFORD HARBOR LONG-TERM MONITORING III SURVEY

Appendix 4. TOC 1999 New Bedford Harbor Long-Term Monitoring III Survey

| Station ID | Bottle ID Inorganic | Workbook ID | TOC Average % dry wt. | Station ID | Bottle ID Inorganic | Workbook ID | TOC Average % dry wt. |
|------------|------------------------|-------------|--------------------------|------------|------------------------|-------------|--------------------------|
| 105 | 5001036 | WHG 4 | 6.1 | 225 | 5041036 | WHG 2 | 5.4 |
| 108 | 5002036 | WHG 5 | 10 | 226 | 5042036 | WHG 2 | 6.4 |
| 109 | 5003036 | WHG 5 | 6.7 | 226 | 5042037 | WHG 2 | 6.5 |
| 111 | 5004036 | WHG 4 | 6.5 | 227 | 5043036 | WHG 2 | 4.5 |
| 114 | 5005036 | WHG 4 | 10.1 | 230 | 5044036 | WHG 2 | 3.7 |
| 115 | 5006036 | WHG 4 | 7.2 | 231 | 5045036 | WHG 2 | 9.2 |
| 117 | 5007036 | WHG 2 | 7.7 | 235 | 5046036 | WHG 1 | 4.6 |
| 120 | 5008036 | WHG 2 | 7.1 | 236 | 5047036 | WHG 1 | 4.2 |
| 121 | 5009036 | WHG 2 | 6.9 | 237 | 5048036 | WHG 3 | 3.9 |
| 123 | 5010036 | WHG 3 | 8.3 | 240 | 5049036 | WHG 1 | 5.0 |
| 125 | 5011036 | WHG 3 | 8.3 | 241 | 5050036 | WHG 1 | 3.5 |
| 126 | 5012036 | WHG 3 | 8.4 | 242 | 5051036 | WHG 1 | 1.9 |
| 128 | 5013036 | WHG 3 | 9.1 | 245 | 5052036 | WHG 1 | 0.51 |
| 128 | 5013037 | WHG 3 | 7.3 | 247 | 5054036 | WHG 1 | 3.3 |
| 130 | 5014036 | WHG 4 | 8.4 | 249 | 5055036 | WHG 1 | 2.8 |
| 131 | 5015036 | WHG 3 | 8.5 | 250 | 5056036 | WHG 1 | 4.9 |
| 134 | 5016036 | WHG 4 | 8.0 | 253 | 5057036 | WHG 1 | 3.0 |
| 135 | 5017036 | WHG 4 | 0.64 | 304 | 5058036 | WHG 1 | 0.85 |
| 138 | 5018036 | WHG 4 | 10 | 306 | 5060036 | WHG 1 | 0.038 |
| 139 | 5019036 | WHG 3 | 8.1 | 309 | 5061036 | WHG 5 | 3.3 |
| 140 | 5020036 | WHG 4 | 5.5 | 310 | 5062036 | WHG 1 | 1.3 |
| 146 | 5021036 | WHG 4 | 3.5 | 311 | 5063036 | WHG 1 | 0.22 |
| 147 | 5022036 | WHG 3 | 1.6 | 317 | 5064036 | WHG 5 | 3.6 |
| 150 | 5023036 | WHG 3 | 5.2 | 318 | 5065036 | WHG 5 | 0.11 |
| 151 | 5024036 | WHG 3 | 2.1 | 318 | 5065037 | WHG 5 | 0.072 |
| 152 | 5025036 | WHG 3 | 3.5 | 323 | 5066036 | WHG 5 | 1.8 |
| 154 | 5026036 | WHG 3 | 5.4 | 324 | 5067036 | WHG 5 | 3.1 |
| 155 | 5027036 | WHG 3 | 0.52 | 325 | 5068036 | WHG 5 | 2.5 |
| 202 | 5028036 | WHG 5 | 0.16 | 331 | 5071036 | WHG 1 | 2.4 |
| 204 | 5029036 | WHG 2 | 2.3 | 332 | 5072036 | WHG 5 | 1.2 |
| 207 | 5030036 | WHG 2 | 3.7 | 333 | 5073036 | WHG 5 | 0.88 |
| 208 | 5031036 | WHG 2 | 0.83 | 334 | 5074036 | WHG 5 | 2.1 |
| 211 | 5032036 | WHG 2 | 5.4 | 335 | 5075036 | WHG 5 | 0.58 |
| 212 | 5033036 | WHG 3 | 7.0 | 338 | 5076036 | WHG 5 | 2.4 |
| 216 | 5034036 | WHG 2 | 2.8 | 339 | 5077036 | WHG 5 | 1.9 |
| 217 | 5035036 | WHG 2 | 7.0 | 340 | 5078036 | WHG 5 | 2.1 |
| 218 | 5036036 | WHG 2 | 1.4 | 341 | 5079036 | WHG 5 | 1.3 |
| 220 | 5037036 | WHG 2 | 3.7 | 345 | 5081036 | WHG 5 | 2.3 |
| 221 | 5038036 | WHG 3 | 8.2 | 346 | 5082036 | WHG 5 | 0.21 |
| 222 | 5039036 | WHG 2 | 4.7 | 349 | 5083036 | WHG 1 | 0.80 |
| 224 | 5040036 | WHG 2 | 5.5 | 352 | 5085036 | WHG 1 | 0.48 |

APPENDIX 5

PCB DATA

5a. Total PCBs New Bedford Harbor Long-Term Monitoring III

5b. NOAA PCB Congeners New Bedford Harbor Long-Term Monitoring III

APPENDIX 5A
TOTAL PCBs NEW BEDFORD HARBOR LONG-TERM MONITORING III

Appendix 5A. Total PCBs New Bedford Harbor Long-Term Monitoring III

| Station ID | Bottle ID | Workbook ID | tPCBs ug/g | Station ID | Bottle ID | Workbook ID | tPCBs ug/g |
|------------|-----------|-------------|------------|------------|-----------|-------------|------------|
| 105 | 5001030 | WHG 4 | 330 | 225 | 5041030 | WHG 2 | 8.3 |
| 108 | 5002030 | WHG 5 | 210 | 226 | 5042030 | WHG 2 | 11 |
| 109 | 5003030 | WHG 5 | 260 | 226 | 5042031 | WHG 2 | 12 |
| 111 | 5004030 | WHG 4 | 220 | 227 | 5043030 | WHG 2 | 6.6 |
| 114 | 5005030 | WHG 4 | 170 | 230 | 5044030 | WHG 2 | 6.5 |
| 115 | 5006030 | WHG 4 | 140 | 231 | 5045030 | WHG 2 | 7.7 |
| 117 | 5007030 | WHG 2 | 270 | 235 | 5046030 | WHG 1 | 6.8 |
| 120 | 5008030 | WHG 2 | 350 | 236 | 5047030 | WHG 1 | 5.8 |
| 121 | 5009030 | WHG 2 | 140 | 237 | 5048030 | WHG 3 | 2 |
| 123 | 5010030 | WHG 3 | 120 | 240 | 5049030 | WHG 1 | 6.8 |
| 125 | 5011030 | WHG 3 | 84 | 241 | 5050030 | WHG 1 | 3 |
| 126 | 5012030 | WHG 3 | 38 | 242 | 5051030 | WHG 1 | 2.2 |
| 128 | 5013030 | WHG 3 | 79 | 245 | 5052030 | WHG 1 | 0.82 |
| 128 | 5013031 | WHG 3 | 80 | 247 | 5054030 | WHG 1 | 3.6 |
| 130 | 5014030 | WHG 4 | 50 | 249 | 5055030 | WHG 1 | 1.5 |
| 131 | 5015030 | WHG 3 | 54 | 250 | 5056030 | WHG 1 | 5.4 |
| 134 | 5016030 | WHG 4 | 58 | 253 | 5057030 | WHG 1 | 5.6 |
| 135 | 5017030 | WHG 4 | 2.5 | 304 | 5058030 | WHG 1 | 0.5 |
| 138 | 5018030 | WHG 4 | 33 | 306 | 5060030 | WHG 1 | 0.016 |
| 139 | 5019030 | WHG 3 | 45 | 309 | 5061030 | WHG 5 | 0.83 |
| 140 | 5020030 | WHG 4 | 30 | 310 | 5062030 | WHG 1 | 1.4 |
| 146 | 5021030 | WHG 4 | 7.3 | 311 | 5063030 | WHG 1 | 0.038 |
| 147 | 5022030 | WHG 3 | 5.6 | 317 | 5064030 | WHG 5 | 2 |
| 150 | 5023030 | WHG 3 | 20 | 318 | 5065030 | WHG 5 | 0.018 |
| 151 | 5024030 | WHG 3 | 6.3 | 318 | 5065031 | WHG 5 | 0.014 |
| 152 | 5025030 | WHG 3 | 11 | 323 | 5066030 | WHG 5 | 0.46 |
| 154 | 5026030 | WHG 3 | 20 | 324 | 5067030 | WHG 5 | 1 |
| 155 | 5027030 | WHG 3 | 1.8 | 325 | 5078030 | WHG 5 | 0.66 |
| 202 | 5028030 | WHG 5 | 0.78 | 331 | 5071030 | WHG 1 | 0.038 |
| 204 | 5029030 | WHG 2 | 11 | 332 | 5072030 | WHG 5 | 0.065 |
| 207 | 5030030 | WHG 2 | 14 | 333 | 5073030 | WHG 5 | 0.029 |
| 208 | 5031030 | WHG 2 | 1.5 | 334 | 5074030 | WHG 5 | 0.21 |
| 211 | 5032030 | WHG 2 | 17 | 335 | 5075030 | WHG 5 | 0.047 |
| 212 | 5033030 | WHG 3 | 17 | 338 | 5076030 | WHG 5 | 0.16 |
| 216 | 5034030 | WHG 2 | 4.1 | 339 | 5077030 | WHG 5 | 0.1 |
| 217 | 5035030 | WHG 2 | 18 | 340 | 5078030 | WHG 5 | 0.12 |
| 218 | 5036030 | WHG 2 | 1.3 | 341 | 5079030 | WHG 5 | 0.067 |
| 220 | 5037030 | WHG 2 | 8.9 | 345 | 5081030 | WHG 5 | 0.1 |
| 221 | 5038030 | WHG 3 | 11 | 346 | 5082030 | WHG 5 | 0.015 |
| 222 | 5039030 | WHG 2 | 16 | 349 | 5083030 | WHG 1 | 0.051 |
| 224 | 5040030 | WHG 2 | 12 | 352 | 5080030 | WHG 1 | 0.012 |

APPENDIX 5B

NOAA PCB CONGENERS NEW BEDFORD HARBOR LONG-TERM MONITORING III

Appendix SB. NOAA PCB Congenets New Bedford Harbor Long-Term Monitoring III (ug/g).

| 223456789 | | | | | | | | | | | | | | | | | 223456789 | | | | | | | | | | | | | | | | | | | | |
|------------|----------|-----------|-----------|----------|-------|----------|----------|-----------|--------|--------|---------|------------|------------|-------------|----------|----------|-----------|------------|------------|-------------|----------|----------|-----------|------------|------------|-------------|----------|----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|
| 223456789 | | | | | | | | | | | | | | | | | 223456789 | | | | | | | | | | | | | | | | | | | | |
| 223456789 | | | | | | | | | | | | | | | | | 223456789 | | | | | | | | | | | | | | | | | | | | |
| Station ID | Latitude | Longitude | Elevation | Altitude | Depth | Min Temp | Max Temp | Mean Temp | Min RH | Max RH | Mean RH | Min Precip | Max Precip | Mean Precip | Min Wind | Max Wind | Mean Wind | Min Precip | Max Precip | Mean Precip | Min Wind | Max Wind | Mean Wind | Min Precip | Max Precip | Mean Precip | Min Wind | Max Wind | Mean Wind | | | | | | | | |
| 105 | 36 | 60 | 77 | 13 | 70 | 18 | 14 | 0.45 | 11 | 0.42 | 51 | 14 | 0.96 | 1.4 | 1.9 | 0 | 0.27 | 0.22 | 0.22 | 0.27 | 0.22 | 0.22 | 0.27 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | | | | | | |
| 106 | 15 | 32 | 38 | 14 | 47 | 85 | 16 | 1.1 | 13 | 0.9 | 77 | 14 | 1.2 | 1.7 | 2.4 | 2.4 | 1.7 | 1.7 | 3.0 | 3.0 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | | |
| 107 | 20 | 40 | 48 | 16 | 65 | 19 | 12 | 0.68 | 66 | 0.9 | 77 | 15 | 1.2 | 1.9 | 2.6 | 2.6 | 1.7 | 1.7 | 3.0 | 3.0 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | | |
| 111 | 24 | 44 | 47 | 10 | 45 | 13 | 10 | 0.39 | 7.6 | 0.47 | 4.4 | 9.8 | 0.77 | 1.2 | 1.5 | 1.3 | 1.3 | 1.3 | 1.3 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | | |
| 114 | 91 | 22 | 32 | 12 | 34 | 63 | 14 | 1.2 | 11 | 0.9 | 7.1 | 12 | 1.1 | 1.7 | 2.0 | 2.0 | 1.2 | 1.2 | 2.0 | 2.0 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | 0.27 | |
| 115 | 52 | 12 | 28 | 10 | 36 | 36 | 9.0 | 1.2 | 7.5 | 1.1 | 7.0 | 9.5 | 1.1 | 1.6 | 2.0 | 2.0 | 1.2 | 1.2 | 2.0 | 2.0 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 | |
| 117 | 29 | 47 | 56 | 19 | 60 | 50 | 17 | 1.2 | 9.4 | 1.2 | 7.2 | 16 | 1.4 | 2.0 | 2.1 | 2.1 | 1.2 | 1.2 | 1.6 | 1.6 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | 0.26 | |
| 120 | 38 | 60 | 75 | 30 | 57 | 23 | 21 | 2.8 | 15 | 1.4 | 6.9 | 15 | 1.2 | 1.7 | 1.6 | 1.6 | 1.2 | 1.2 | 1.7 | 1.6 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | |
| 121 | 72 | 20 | 30 | 7.4 | 32 | 30 | 11 | 0.92 | 6.8 | 0.89 | 5.2 | 7.7 | 0.96 | 1.4 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | | |
| 123 | 78 | 14 | 27 | 8.4 | 27 | 8.2 | 7.5 | 0.91 | 6.2 | 0.79 | 4.8 | 6.8 | 0.76 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | 0.17 | | |
| 125 | 31 | 7.7 | 15 | 6.2 | 15 | 48 | 7.9 | 1.2 | 7.1 | 0.74 | 4.8 | 6.7 | 0.71 | 1.1 | 1.2 | 1.3 | 1.2 | 1.3 | 1.2 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | | |
| 126 | 20 | 40 | 7.0 | 2.2 | 7.4 | 1.7 | 3.2 | 0.42 | 2.7 | 0.32 | 2.0 | 3.0 | 0.3 | 0.46 | 0.61 | 0.61 | 0.61 | 0.61 | 0.61 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | | |
| 128 | 3.1 | 7.1 | 15 | 6.0 | 14 | 50 | 7.3 | 1.2 | 6.7 | 0.79 | 4.5 | 6.2 | 0.64 | 1.0 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | 0.12 | | |
| 128 | 3.0 | 7.0 | 14 | 6.0 | 14 | 5.6 | 7.4 | 1.2 | 6.8 | 0.76 | 4.5 | 6.3 | 0.65 | 1.0 | 1.1 | 1.1 | 1.1 | 1.1 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | 0.11 | | | |
| 130 | 1.7 | 3.8 | 8.4 | 7.7 | 3.8 | 5.5 | 0.9 | 5.2 | 5.2 | 0.52 | 3.1 | 4.3 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.62 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | | | |
| 131 | 22 | 48 | 9.5 | 4.3 | 9.3 | 30 | 5.1 | 0.83 | 4.7 | 0.54 | 4.2 | 5.1 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.65 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | | | |
| 134 | 1.7 | 4.2 | 9.2 | 4.2 | 9.2 | 6.2 | 1.2 | 6.1 | 0.66 | 3.9 | 5.0 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.53 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | 0.09 | | | | |
| 135 | 0.013 | 0.16 | 0.49 | 0.14 | 0.49 | 0.13 | 0.28 | 0.047 | 0.28 | 0.028 | 0.16 | 0.024 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | 0.035 | | | | | | | | | |
| 138 | 0.63 | 1.8 | 4.8 | 2.1 | 4.3 | 3.0 | 3.9 | 0.82 | 4.0 | 0.45 | 2.4 | 3.1 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | | | |
| 139 | 1.3 | 3.2 | 6.9 | 3.4 | 6.9 | 3.4 | 5.1 | 0.89 | 5.0 | 0.55 | 3.0 | 4.0 | 0.4 | 0.45 | 0.54 | 0.54 | 0.54 | 0.54 | 0.54 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | 0.08 | | |
| 140 | 0.93 | 2.2 | 4.9 | 2.3 | 4.6 | 4.2 | 0.53 | 0.79 | 0.16 | 0.70 | 0.089 | 0.53 | 0.61 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | | |
| 146 | 0.34 | 0.5 | 1.1 | 0.9 | 1.1 | 0.53 | 0.79 | 0.16 | 0.70 | 0.089 | 0.53 | 0.61 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.044 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | | | |
| 147 | 0.17 | 0.35 | 0.95 | 0.31 | 0.95 | 0.10 | 0.38 | 0.63 | 0.01 | 0.63 | 0.037 | 0.35 | 0.42 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | 0.003 | | |
| 150 | 0.53 | 1.1 | 3.3 | 1.6 | 3.3 | 1.6 | 3.0 | 0.82 | 2.1 | 0.22 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | | | | |
| 151 | 0.18 | 0.38 | 1.1 | 0.37 | 1.1 | 0.43 | 0.72 | 0.13 | 0.71 | 0.08 | 0.66 | 1.0 | 0.15 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.06 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | 0.01 | |
| 152 | 0.38 | 0.82 | 1.8 | 0.82 | 1.8 | 0.82 | 1.2 | 0.14 | 0.18 | 0.09 | 0.18 | 0.14 | 0.08 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | |
| 154 | 0.49 | 1.6 | 3.5 | 1.5 | 3.5 | 1.5 | 2.2 | 0.4 | 2.1 | 0.21 | 0.58 | 2.2 | 0.31 | 0.15 | 0.22 | 0.22 | 0.22 | 0.22 | 0.22 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | 0.03 | |
| 155 | 0.044 | 0.12 | 0.29 | 0.13 | 0.29 | 0.12 | 0.26 | 0.016 | 0.19 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | | | |
| 202 | 0.018 | 0.052 | 0.12 | 0.058 | 0.12 | 0.052 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | 0.016 | | | | |
| 204 | 0.24 | 0.41 | 1.1 | 0.46 | 1.1 | 0.46 | 1.4 | 1.7 | 0.46 | 1.4 | 1.7 | 0.46 | 1.4 | 0.16 | 0.045 | 0.045 | 0.045 | 0.045 | 0.045 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | |
| 207 | 0.25 | 0.55 | 1.9 | 0.60 | 1.8 | 1.4 | 1.7 | 0.46 | 1.4 | 1.7 | 0.46 | 1.4 | 1.7 | 0.16 | 0.045 | 0.045 | 0.045 | 0.045 | 0.045 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | |
| 208 | 0.020 | 0.068 | 0.19 | 0.09 | 0.18 | 0.14 | 0.18 | 0.016 | 0.10 | 0.22 | 0.15 | 0.18 | 0.15 | 0.08 | 0.052 | 0.052 | 0.052 | 0.052 | 0.052 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | |
| 211 | 0.33 | 0.78 | 2.3 | 1.0 | 1.0 | 1.0 | 1.5 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.21 | 0.11 | 0.19 | 0.19 | 0.19 | 0.19 | 0.19 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| 212 | 0.28 | 0.63 | 2.2 | 0.89 | 1.9 | 1.5 | 2.0 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.73 | 0.38 | 0.24 | 0.24 | 0.24 | 0.24 | 0.24 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 | 0.017 |
| 216 | 0.079 | 0.16 | 0.47 | 0.24 | 0.44 | 0.39 | 0.48 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

APPENDIX 6

INORGANICS NEW BEDFORD LONG-TERM MONITORING III

Appendix 6. Inorganics New Bedford Long-Term Monitoring III

| Station ID | Bottle ID | Inorganic | Workbook ID | Arsenic* | Cadmium* | Chromium* | Copper* | Lead* | Mercury* | Nickel* | Selenium* | Zinc* |
|------------|-----------|-----------|-------------|----------|----------|-----------|---------|-------|----------|---------|-----------|-------|
| 105 | 5001036 | WHDG 4 | 4.5 | 8.3 | 280 | 518 | 305 | 0.75 | 30.9 | 0.053 | 854 | |
| 108 | 5002036 | WHDG 5 | 8.9 | 8.9 | 395 | 863 | 503 | 1.3 | 46.5 | 0.18 | 1090 | |
| 109 | 5003036 | WHDG 5 | 4.6 | 5.6 | 325 | 606 | 271 | 0.59 | 36.3 | 0.063 | 594 | |
| 111 | 5004036 | WHDG 4 | 5.6 | 19.0 | 453 | 659 | 314 | 1.1 | 47.8 | 0.069 | 1030 | |
| 114 | 5005036 | WHDG 4 | 9.1 | 11.2 | 483 | 895 | 449 | 1.3 | 52.5 | 0.12 | 959 | |
| 115 | 5006036 | WHDG 4 | 6.7 | 7.5 | 484 | 827 | 329 | 1.1 | 50.1 | 0.12 | 783 | |
| 117 | 5007036 | WHDG 2 | 8.6 | 16.8 | 562 | 991 | 395 | 1.2 | 53.6 | 0.082 | 1090 | |
| 120 | 5008036 | WHDG 2 | 8.0 | 15.8 | 553 | 932 | 326 | 1.3 | 45.2 | 0.077 | 904 | |
| 121 | 5009036 | WHDG 2 | 7.4 | 13.8 | 512 | 891 | 267 | 1.1 | 35.9 | 0.083 | 781 | |
| 123 | 5010036 | WHDG 3 | 8.8 | 21.9 | 711 | 1180 | 361 | 0.87 | 55.8 | 0.064 | 1000 | |
| 125 | 5011036 | WHDG 3 | 10.8 | 11.7 | 603 | 1260 | 451 | 1.0 | 53.2 | 0.30 | 973 | |
| 126 | 5012036 | WHDG 3 | 4.6 | 5.6 | 277 | 540 | 172 | 0.46 | 22.6 | 0.13 | 396 | |
| 128 | 5013036 | WHDG 3 | 10.0 | 14.2 | 655 | 1300 | 397 | 0.99 | 56.2 | 0.31 | 1030 | |
| 128 | 5013037 | WHDG 3 | 10.0 | 14.6 | 630 | 1240 | 377 | 0.92 | 57.1 | 0.11 | 1040 | |
| 130 | 5014036 | WHDG 4 | 8.2 | 16.5 | 547 | 982 | 416 | 1.5 | 115 | 0.14 | 1340 | |
| 131 | 5015036 | WHDG 3 | 8.4 | 13.1 | 526 | 1060 | 254 | 0.83 | 32.9 | 0.058 | 701.0 | |
| 134 | 5016036 | WHDG 4 | 10.5 | 12.7 | 604 | 1150 | 366 | 1.2 | 64.0 | 0.14 | 979 | |
| 135 | 5017036 | WHDG 4 | 0.82 | 0.47 | 28.4 | 73.9 | 25.4 | 0.068 | 4.3 | 0.025 | 55.1 | |
| 138 | 5018036 | WHDG 4 | 7.9 | 10.7 | 579 | 1070 | 325 | 1.3 | 45.0 | 0.15 | 700 | |
| 139 | 5019036 | WHDG 3 | 8.4 | 12.9 | 622 | 1210 | 322 | 1.3 | 54.9 | 0.15 | 792 | |
| 140 | 5020036 | WHDG 4 | 8.5 | 9.4 | 533 | 986 | 269 | 0.67 | 37.6 | 0.077 | 634 | |
| 146 | 5021036 | WHDG 4 | 5.0 | 2.2 | 140 | 486 | 164 | 0.66 | 13.5 | 0.044 | 484 | |
| 147 | 5022036 | WHDG 3 | 1.3 | 0.80 | 56.8 | 190 | 46.2 | 0.17 | 6.1 | 0.028 | 96.1 | |
| 150 | 5023036 | WHDG 3 | 5.3 | 6.3 | 316 | 639 | 228 | 0.95 | 29.8 | 0.084 | 436 | |
| 151 | 5024036 | WHDG 3 | 2.6 | 1.6 | 103 | 272 | 311 | 0.26 | 9.3 | 0.036 | 186 | |
| 152 | 5025036 | WHDG 3 | 3.3 | 2.3 | 140 | 316 | 110 | 0.28 | 14.6 | 0.076 | 230 | |
| 154 | 5026036 | WHDG 3 | 5.4 | 5.4 | 261 | 539 | 165 | 0.45 | 22.6 | 0.042 | 376 | |

Appendix 6. Inorganics New Bedford Long-Term Monitoring III

| Station ID | Bottle ID | Inorganic Workbook ID | Arsenic* | Cadmium* | Chromium* | Copper* | Lead* | Mercury* | Nickel* | Selenium* | Zinc* |
|------------|-----------|-----------------------|----------|----------|-----------|---------|-------|----------|---------|-----------|-------|
| 155 | 5027036 | WHD 3 | 0.74 | 0.44 | 22.0 | 99.2 | 21.7 | 0.080 | 3.1 | 0.024 | 48.9 |
| 202 | 5028036 | WHD 5 | 0.80 | 0.15 | 10.0 | 17.0 | 9.4 | 0.016 | 2.8 | 0.023 | 22.7 |
| 204 | 5029036 | WHD 2 | 5.5 | 3.8 | 212 | 786 | 119 | 0.57 | 15.0 | 0.045 | 424 |
| 207 | 5030036 | WHD 2 | 9.9 | 3.0 | 366 | 5060 | 199 | 0.86 | 120 | 0.080 | 1310 |
| 208 | 5031036 | WHD 2 | 1.1 | 0.31 | 40.5 | 144 | 29.2 | 0.12 | 3.9 | 0.029 | 60.5 |
| 211 | 5032036 | WHD 2 | 10.8 | 3.3 | 447 | 1040 | 224 | 1.1 | 24.1 | 0.060 | 470 |
| 212 | 5033036 | WHD 3 | 8.5 | 2.2 | 552 | 1240 | 236 | 1.2 | 25.8 | 0.14 | 418 |
| 216 | 5034036 | WHD 2 | 5.2 | 1.3 | 134 | 309 | 76.9 | 0.38 | 8.1 | 0.040 | 202 |
| 217 | 5035036 | WHD 2 | 9.6 | 3.0 | 707 | 1410 | 272 | 1.2 | 28.3 | 0.056 | 458 |
| 218 | 5036036 | WHD 2 | 1.4 | 0.26 | 39.8 | 126 | 91.4 | 0.18 | 3.6 | 0.023 | 55.5 |
| 220 | 5037036 | WHD 2 | 5.6 | 3.4 | 211 | 443 | 101 | 0.51 | 12.3 | 0.042 | 254 |
| 221 | 5038036 | WHD 3 | 8.8 | 2.1 | 342 | 743 | 220 | 0.54 | 24.6 | 0.21 | 400 |
| 222 | 5039036 | WHD 2 | 12.8 | 3.5 | 292 | 693 | 228 | 0.76 | 19.8 | 0.080 | 537 |
| 224 | 5040036 | WHD 2 | 11.3 | 2.7 | 243 | 544 | 172 | 0.68 | 17.3 | 0.076 | 407 |
| 225 | 5041036 | WHD 2 | 16.5 | 3.5 | 453 | 1040 | 269 | 1.1 | 26.5 | 0.15 | 651 |
| 226 | 5042036 | WHD 2 | 12.9 | 3.5 | 449 | 956 | 390 | 1.0 | 24.2 | 0.11 | 1310 |
| 227 | 5043036 | WHD 2 | 8.2 | 1.8 | 186 | 467 | 122 | 0.63 | 12.4 | 0.056 | 335 |
| 230 | 5044036 | WHD 2 | 7.8 | 2.1 | 141 | 477 | 132 | 0.49 | 13.5 | 0.046 | 472 |
| 231 | 5045036 | WHD 2 | 10.8 | 2.4 | 244 | 558 | 161 | 0.56 | 20.3 | 0.10 | 428 |
| 235 | 5046036 | WHD 1 | 9.9 | 2.2 | 185 | 418 | 151 | 0.66 | 19.2 | 0.12 | 412 |
| 236 | 5047036 | WHD 1 | 7.5 | 1.4 | 126 | 269 | 98.0 | 0.36 | 13.9 | 0.11 | 270 |
| 237 | 5048036 | WHD 3 | 3.1 | 0.41 | 32.9 | 147 | 101 | 0.77 | 13.4 | 0.029 | 215 |
| 240 | 5049036 | WHD 1 | 8.9 | 1.8 | 141 | 312 | 117 | 0.41 | 15.9 | 0.14 | 318 |
| 241 | 5050036 | WHD 1 | 7.3 | 1.2 | 99.4 | 219 | 82.5 | 0.31 | 12.6 | 0.059 | 252 |
| 242 | 5051036 | WHD 1 | 3.4 | 0.64 | 50.3 | 125 | 43.3 | 0.19 | 5.4 | 0.034 | 134 |
| 245 | 5052036 | WHD 1 | 2.0 | 0.22 | 17.3 | 44.2 | 19.3 | 0.087 | 3.2 | 0.028 | 50.1 |
| 247 | 5054036 | WHD 1 | 5.7 | 1.2 | 126 | 295 | 97.7 | 0.50 | 12.0 | 0.091 | 264 |
| 249 | 5055036 | WHD 1 | 2.3 | 0.44 | 37.8 | 101 | 40.4 | 0.16 | 4.3 | 0.039 | 103 |
| 250 | 5056036 | WHD 1 | 8.9 | 1.7 | 124 | 252 | 114 | 0.32 | 16.1 | 0.14 | 344 |

Appendix 6. Inorganics New Bedford Long-Term Monitoring III

| Station ID | Bottle ID | Inorganic | Workbook ID | Arsenic* | Cadmium* | Chromium* | Copper* | Lead* | Mercury* | Nickel* | Selenium* | Zinc* |
|------------|-----------|-----------|-------------|----------|----------|-----------|---------|-------|----------|---------|-----------|-------|
| 253 | 5057036 | WHDG 1 | WHDG 1 | 5.2 | 2.8 | 137 | 281 | 90.3 | 0.33 | 12.9 | 0.070 | 236 |
| 304 | 5058036 | WHDG 1 | WHDG 1 | 1.3 | 0.24 | 13.2 | 30.6 | 15.3 | 0.079 | 2.3 | 0.026 | 43.7 |
| 306 | 5060036 | WHDG 1 | WHDG 1 | 0.39 | 0.040 | 2.3 | 2.2 | 2.6 | 0.0070 | 0.89 | 0.024 | 5.5 |
| 309 | 5061036 | WHDG 5 | WHDG 5 | 5.1 | 1.0 | 46.2 | 56.7 | 72.4 | 0.13 | 10.8 | 0.093 | 123 |
| 310 | 5062036 | WHDG 1 | WHDG 1 | 2.6 | 0.49 | 24.0 | 42.0 | 21.0 | 0.11 | 4.0 | 0.028 | 55.4 |
| 311 | 5063036 | WHDG 1 | WHDG 5 | 0.96 | 0.064 | 4.5 | 4.2 | 5.4 | 0.020 | 1.3 | 0.024 | 15.3 |
| 317 | 5064036 | WHDG 5 | WHDG 5 | 6.1 | 1.0 | 67.5 | 77.1 | 51.9 | 0.12 | 11.5 | 0.052 | 109 |
| 318 | 5065036 | WHDG 5 | WHDG 5 | 0.55 | 0.042 | 2.7 | 1.6 | 3.8 | 0.0085 | 0.90 | 0.023 | 6.3 |
| 318 | 5065037 | WHDG 5 | WHDG 5 | 0.58 | 0.040 | 2.7 | 1.4 | 3.7 | 0.0077 | 0.79 | 0.024 | 5.8 |
| 323 | 5066036 | WHDG 5 | WHDG 5 | 3.6 | 0.33 | 26.9 | 22.9 | 25.1 | 0.064 | 7.0 | 0.033 | 52.8 |
| 324 | 5067036 | WHDG 5 | WHDG 5 | 4.6 | 0.58 | 43.7 | 38.7 | 34.3 | 0.094 | 9.0 | 0.051 | 69.9 |
| 325 | 5068036 | WHDG 5 | WHDG 5 | 5.5 | 0.37 | 38.6 | 34.2 | 31.3 | 0.087 | 9.8 | 0.068 | 64.3 |
| 331 | 5071036 | WHDG 1 | WHDG 1 | 4.8 | 0.25 | 34.9 | 28.0 | 28.0 | 0.13 | 10.7 | 0.077 | 68.1 |
| 332 | 5072036 | WHDG 5 | WHDG 5 | 1.4 | 0.048 | 8.2 | 5.0 | 7.6 | 0.022 | 3.1 | 0.025 | 17.7 |
| 333 | 5073036 | WHDG 5 | WHDG 5 | 2.0 | 0.042 | 3.8 | 2.4 | 4.8 | 0.0090 | 1.8 | 0.022 | 13.1 |
| 334 | 5074036 | WHDG 5 | WHDG 5 | 4.4 | 0.14 | 25.7 | 17.3 | 20.9 | 0.050 | 8.5 | 0.035 | 49.6 |
| 335 | 5075036 | WHDG 5 | WHDG 5 | 1.0 | 0.042 | 5.8 | 3.4 | 6.8 | 0.012 | 2.3 | 0.024 | 14.8 |
| 338 | 5076036 | WHDG 5 | WHDG 5 | 4.5 | 0.13 | 26.6 | 14.3 | 19.5 | 0.035 | 9.6 | 0.046 | 51.5 |
| 339 | 5077036 | WHDG 5 | WHDG 5 | 4.3 | 0.10 | 19.1 | 10.0 | 14.6 | 0.026 | 7.6 | 0.036 | 39.5 |
| 340 | 5078036 | WHDG 5 | WHDG 5 | 5.1 | 0.085 | 20.4 | 10.2 | 16.1 | 0.030 | 8.8 | 0.048 | 42.2 |
| 341 | 5079036 | WHDG 5 | WHDG 5 | 2.2 | 0.044 | 12.8 | 6.7 | 10.9 | 0.018 | 4.7 | 0.032 | 27.6 |
| 345 | 5081036 | WHDG 5 | WHDG 5 | 4.5 | 0.10 | 21.5 | 10.7 | 15.6 | 0.029 | 8.4 | 0.045 | 44.2 |
| 346 | 5082036 | WHDG 5 | WHDG 1 | 1.9 | 0.022 | 5.9 | 1.9 | 4.6 | 0.0045 | 2.1 | 0.024 | 19.6 |
| 349 | 5083036 | WHDG 1 | WHDG 1 | 2.4 | 0.099 | 14.0 | 7.7 | 10.0 | 0.026 | 5.8 | 0.044 | 34.0 |
| 352 | 5085036 | WHDG 1 | WHDG 1 | 1.2 | 0.023 | 3.4 | 1.8 | 3.3 | 0.0081 | 1.7 | 0.021 | 10.7 |

*ug/g dry wt.

APPENDIX 7

ACID VOLATILE SULFIDES (AVS) NEW BEDFORD LONG-TERM MONITORING III

Appendix 7. Acid Volatile Sulfides (AVS) New Bedford Long-Term Monitoring III

| Station ID | Bottle ID | Workbook ID | AVS umol/g dry wt. | Station ID | Bottle ID | Workbook ID | AVS umol/g dry wt. |
|---------------|-----------|----------------|-----------------------|---------------|-----------|----------------|-----------------------|
| 105 | 5001033 | WHG 4 | 30 | 225 | 5041033 | WHG 2 | 27 |
| 108 | 5002033 | WHG 5 | 43 | 226 | 5042033 | WHG 2 | 62 |
| 109 | 5003033 | WHG 5 | 22 | 226 | 5042034 | WHG 2 | 37 |
| 111 | 5004033 | WHG 4 | 32 | 227 | 5043033 | WHG 2 | 42 |
| 114 | 5005033 | WHG 4 | 48 | 230 | 5044033 | WHG 2 | 24 |
| 115 | 5006033 | WHG 4 | 34 | 231 | 5045033 | WHG 2 | ? |
| 117 | 5007033 | WHG 2 | 12 | 235 | 5046033 | WHG 1 | 67 |
| 120 | 5008033 | WHG 2 | 28 | 236 | 5047033 | WHG 1 | 63 |
| 121 | 5009033 | WHG 2 | 5.4 | 237 | 5048033 | WHG 3 | 7 |
| 123 | 5010033 | WHG 3 | 54 | 240 | 5049033 | WHG 1 | 72 |
| 125 | 5011033 | WHG 3 | 73 | 241 | 5050033 | WHG 1 | 13 |
| 126 | 5012033 | WHG 3 | 28 | 242 | 5051033 | WHG 1 | 13 |
| 128 | 5013034 | WHG 3 | 67 | 245 | 5052033 | WHG 1 | 3 |
| 128 | 5013033 | WHG 3 | 62 | 247 | 5054033 | WHG 1 | 50 |
| 130 | 5014033 | WHG 4 | 75 | 249 | 5055033 | WHG 1 | 17 |
| 131 | 5015033 | WHG 3 | 34 | 250 | 5056033 | WHG 1 | 60 |
| 134 | 5016033 | WHG 4 | 51 | 253 | 5057033 | WHG 1 | 19 |
| 135 | 5017033 | WHG 4 | 1.8 | 304 | 5058033 | WHG 1 | 20 |
| 138 | 5018033 | WHG 4 | 51 | 306 | 5060033 | WHG 1 | 0.4 |
| 139 | 5019033 | WHG 3 | 38 | 309 | 5061033 | WHG 5 | 33 |
| 140 | 5020033 | WHG 4 | 39 | 310 | 5062033 | WHG 1 | 15 |
| 146 | 5021033 | WHG 4 | 18 | 311 | 5063033 | WHG 1 | 3.7 |
| 147 | 5022033 | WHG 3 | 7.8 | 317 | 5064033 | WHG 5 | 5.6 |
| 150 | 5023033 | WHG 3 | 25 | 318 | 5065033 | WHG 5 | 0.56 |
| 151 | 5024033 | WHG 3 | 6 | 318 | 5065034 | WHG 5 | 0.15 |
| 152 | 5025033 | WHG 3 | 15 | 323 | 5066033 | WHG 5 | 11 |
| 154 | 5026033 | WHG 3 | 42 | 324 | 5067033 | WHG 5 | 26 |
| 155 | 5027033 | WHG 3 | 3 | 325 | 5068033 | WHG 5 | 4.2 |
| 202 | 5028033 | WHG 5 | 0.7 | 331 | 5071033 | WHG 1 | 4.8 |
| 204 | 5029033 | WHG 2 | 10 | 332 | 5072033 | WHG 5 | 2.7 |
| 207 | 5030033 | WHG 2 | 35 | 333 | 5073033 | WHG 5 | 3.1 |
| 208 | 5031033 | WHG 2 | 3.2 | 334 | 5074033 | WHG 5 | 2 |
| 211 | 5032033 | WHG 2 | 58 | 335 | 5075033 | WHG 5 | 2.6 |
| 212 | 5033033 | WHG 3 | 34 | 338 | 5076033 | WHG 5 | 1.8 |
| 216 | 5034033 | WHG 2 | 36 | 339 | 5077033 | WHG 5 | 0.27 |
| 217 | 5035033 | WHG 2 | 20 | 340 | 5078033 | WHG 5 | 0.28 |
| 218 | 5036036 | WHG 2 | 4.2 | 341 | 5079033 | WHG 5 | 0.78 |
| 220 | 5037033 | WHG 2 | 7.8 | 345 | 5081033 | WHG 5 | 1.5 |
| 221 | 5038033 | WHG 3 | 46 | 346 | 5082033 | WHG 5 | 0.54 |
| 222 | 5039033 | WHG 2 | 42 | 349 | 5083033 | WHG 1 | 4.3 |
| 224 | 5040033 | WHG 2 | 100 | 352 | 5085033 | WHG 1 | <0.25 |

APPENDIX 8

TOXICITY TESTING RESULTS: NEW BEDFORD HARBOR LONG-TERM MONITORING PROGRAM. LONG-TERM MONITORING III (AMPELISCA ABDITA 10-DAY SEDIMENT TOXICITY TEST RESULTS)

Appendix 8. New Bedford Harbor Long-Term Monitoring Program.

Fall 1999 Sampling Season (*Ampelisca abdita* 10-day Sediment Toxicity Test Results)

| STATION | ENSR | Date Collected | Test Started | # Reps | Days Held | Mortality | Mean Mortality | Mean Survival | Mean Survival (% of Control) | Mortality Statistically Different from Control? | P Value | ESI | Sample ID Number | Test Series Number |
|----------|---------|----------------|--------------|--------|-----------|----------------------------------|----------------|---------------|------------------------------|---|---------|----------|------------------|--------------------|
| | | | | | | INNER HARBOR (SEGMENT 1) RESULTS | | | | | | | | |
| NB99-105 | 5001024 | 10/05/99 | 10/26/99 | 21 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -48 | Series 4 | |
| NB99-108 | 5002024 | 10/06/99 | 10/29/99 | 23 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -66 | Series 5 | |
| NB99-109 | 5003024 | 10/06/99 | 10/29/99 | 23 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -65 | Series 5 | |
| NB99-111 | 5004024 | 10/05/99 | 10/26/99 | 21 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -49 | Series 4 | |
| NB99-114 | 5005024 | 10/01/99 | 10/26/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -55 | Series 4 | |
| NB99-115 | 5006024 | 10/05/99 | 10/26/99 | 21 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -50 | Series 4 | |
| NB99-117 | 5007024 | 11/18/99 | 11/23/99 | 5 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -78 | Series 6 | |
| NB99-120 | 5008024 | 11/18/99 | 11/23/99 | 5 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -79 | Series 6 | |
| NB99-121 | 5009024 | 11/18/99 | 11/23/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -80 | Series 6 | |
| NB99-123 | 5010024 | 09/29/99 | 10/24/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -45 | Series 3 | |
| NB99-125 | 5011024 | 09/29/99 | 10/24/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -43 | Series 3 | |
| NB99-126 | 5012024 | 09/29/99 | 10/24/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -46 | Series 3 | |
| NB99-128 | 5013024 | 09/29/99 | 10/24/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -44 | Series 3 | |
| NB99-130 | 5014024 | 10/01/99 | 10/26/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -53 | Series 4 | |
| NB99-131 | 5015024 | 09/29/99 | 10/24/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -42 | Series 3 | |
| NB99-134 | 5016024 | 10/01/99 | 10/26/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -52 | Series 4 | |
| NB99-135 | 5017024 | 10/01/99 | 10/26/99 | 25 | 5 | 75% | 2.898 | 25% | 27% | Yes | 0.000 | 8141 -56 | Series 4 | |
| NB99-138 | 5018024 | 10/05/99 | 10/26/99 | 21 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -51 | Series 4 | |
| NB99-139 | 5019024 | 09/29/99 | 10/24/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -47 | Series 3 | |
| NB99-140 | 5020024 | 10/01/99 | 10/26/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -54 | Series 4 | |
| NB99-146 | 5021024 | 10/01/99 | 10/26/99 | 25 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -57 | Series 4 | |
| NB99-147 | 5022024 | 09/28/99 | 10/24/99 | 26 | 5 | 93% | 1.356 | 7% | 8% | Yes | 0.000 | 8141 -36 | Series 3 | |
| NB99-150 | 5023024 | 09/28/99 | 10/24/99 | 26 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -37 | Series 3 | |
| NB99-151 | 5024024 | 09/28/99 | 10/24/99 | 26 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -38 | Series 3 | |
| NB99-152 | 5025024 | 09/28/99 | 10/24/99 | 26 | 5 | 83% | 2.059 | 17% | 19% | Yes | 0.000 | 8141 -39 | Series 3 | |
| NB99-154 | 5026024 | 09/28/99 | 10/24/99 | 26 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141 -40 | Series 3 | |
| NB99-155 | 5027024 | 09/28/99 | 10/24/99 | 26 | 5 | 99% | 0.400 | 1% | 1% | Yes | 0.000 | 8141 -41 | Series 3 | |

Appendix 8. New Bedford Harbor Long-Term Monitoring Program.
Fall 1999 Sampling Season (Ampelisca abdita) 10-day Sediment Toxicity Test Results

| STATION | ENSR Field # | Date Collected | Test Started | # Reps Held | MIDDLE HARBOR (SEGMENT 2) RESULTS | | | | | | P Value | ESI Sample ID Number | Test Series Number |
|----------|-----------------|----------------|--------------|-------------|-----------------------------------|---------------|-------------------------------|-------------------|---------------|----------------------------|---------|----------------------|--------------------|
| | | | | | Mortality | Mean Survival | Mean Survival (%) of Control) | Mortality Std Dev | Mean Survival | Mortality (%) of Control?) | | | |
| NB99-202 | 5028024 | 10/06/99 | 10/29/99 | 23 | 5 | 41% | 2.135 | 59% | 64% | Yes | 0.002 | 8141-67 | Series 5 |
| NB99-204 | 5029024 | 09/22/99 | 10/09/99 | 17 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141-23 | Series 2 |
| NB99-207 | 5030024 | 09/22/99 | 10/09/99 | 17 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141-27 | Series 2 |
| NB99-208 | 5031024 | 09/23/99 | 10/09/99 | 16 | 5 | 42% | 1.200 | 58% | 63% | Yes | 0.000 | 8141-30 | Series 2 |
| NB99-211 | 5032024 | 09/22/99 | 10/09/99 | 17 | 5 | 88% | 1.497 | 12% | 13% | Yes | 0.000 | 8141-26 | Series 2 |
| NB99-212 | 5033024 | 09/24/99 | 10/09/99 | 15 | 5 | 90% | 1.673 | 10% | 11% | Yes | 0.000 | 8141-33 | Series 2 |
| NB99-216 | 5034024 | 09/22/99 | 10/09/99 | 17 | 5 | 57% | 4.923 | 43% | 47% | Yes | 0.002 | 8141-24 | Series 2 |
| NB99-217 | 5035024 | 09/23/99 | 10/09/99 | 16 | 5 | 96% | 1.166 | 4% | 4% | Yes | 0.000 | 8141-31 | Series 2 |
| NB99-218 | 5036024 | 10/27/99 | 11/23/99 | 27 | 5 | 88% | 2.332 | 12% | 13% | Yes | 0.000 | 8141-77 | Series 6 |
| NB99-220 | 5037024 | 09/22/99 | 10/09/99 | 17 | 5 | 97% | 1.200 | 3% | 3% | Yes | 0.000 | 8141-25 | Series 2 |
| NB99-221 | 5038024 | 09/24/99 | 10/24/99 | 30 | 5 | 47% | 4.409 | 53% | 58% | Yes | 0.004 | 8141-34 | Series 3 |
| NB99-222 | 5039024 | 09/23/99 | 10/09/99 | 16 | 5 | 99% | 0.400 | 1% | 1% | Yes | 0.000 | 8141-32 | Series 2 |
| NB99-224 | 5040024 | 09/22/99 | 10/09/99 | 17 | 5 | 65% | 3.033 | 35% | 38% | Yes | 0.000 | 8141-22 | Series 2 |
| NB99-225 | 5041024 | 09/21/99 | 10/09/99 | 18 | 5 | 74% | 1.939 | 26% | 28% | Yes | 0.000 | 8141-18 | Series 2 |
| NB99-226 | 5042025 | 09/21/99 | 10/09/99 | 18 | 5 | 22% | 1.960 | 78% | 85% | Yes | 0.017 | 8141-20 | Series 2 |
| NB99-226 | 5042024 | 09/21/99 | 10/09/99 | 18 | 5 | 52% | 4.630 | 48% | 52% | Yes | 0.002 | 8141-19 | Series 2 |
| NB99-227 | 5043024 | 09/21/99 | 10/09/99 | 18 | 5 | 67% | 2.939 | 33% | 36% | Yes | 0.000 | 8141-21 | Series 2 |
| NB99-230 | 5044024 | 09/21/99 | 10/09/99 | 18 | 5 | 100% | 0.000 | 0% | 0% | Yes | 0.000 | 8141-28 | Series 2 |
| NB99-231 | 5045024 | 09/21/99 | 10/09/99 | 18 | 5 | 39% | 3.187 | 61% | 66% | Yes | 0.004 | 8141-29 | Series 2 |
| NB99-235 | 5046024 | 09/20/99 | 10/08/99 | 18 | 5 | 55% | 4.604 | 45% | 48% | Yes | 0.002 | 8141-8 | Series 1 |
| NB99-236 | 5047024 | 09/20/99 | 10/08/99 | 18 | 5 | 52% | 2.800 | 48% | 51% | Yes | 0.000 | 8141-9 | Series 1 |
| NB99-237 | 5048024 | 09/24/99 | 10/24/99 | 30 | 5 | 99% | 0.400 | 1% | 1% | Yes | 0.000 | 8141-35 | Series 3 |
| NB99-240 | 5049024 | 09/20/99 | 10/08/99 | 18 | 5 | 69% | 4.020 | 31% | 33% | Yes | 0.000 | 8141-10 | Series 1 |
| NB99-241 | 5050024 | 09/20/99 | 10/08/99 | 18 | 5 | 59% | 3.250 | 41% | 44% | Yes | 0.000 | 8141-11 | Series 1 |
| NB99-242 | 5051024 | 09/20/99 | 10/08/99 | 18 | 5 | 50% | 3.406 | 50% | 53% | Yes | 0.001 | 8141-12 | Series 1 |
| NB99-245 | 5052024 | 09/19/99 | 10/08/99 | 19 | 5 | 66% | 5.980 | 34% | 36% | Yes | 0.002 | 8141-13 | Series 1 |
| NB99-247 | 5054024 | 09/19/99 | 10/08/99 | 19 | 5 | 32% | 2.577 | 68% | 72% | Yes | 0.002 | 8141-14 | Series 1 |
| NB99-249 | 5055024 | 09/19/99 | 10/08/99 | 19 | 5 | 42% | 4.673 | 58% | 62% | Yes | 0.005 | 8141-15 | Series 1 |
| NB99-250 | 5056024 | 09/19/99 | 10/08/99 | 19 | 5 | 42% | 4.363 | 58% | 62% | Yes | 0.003 | 8141-16 | Series 1 |
| NB99-253 | 5057024 | 09/20/99 | 10/09/99 | 19 | 5 | 70% | 1.897 | 30% | 33% | Yes | 0.000 | 8141-17 | Series 2 |

Appendix 8. New Bedford Long-Term Monitoring Program.

Fall 1999 Sampling Season (Ampelisca abdita 10-day Sediment Toxicity Test Results)

| STATION | ENSR Field # | Date Collected | Test Started | Days Held | # Reps | Mortality Std Dev | Mean Survival (% of Control) | Mortality Statistically Different from Control? | P Value | ES Sample ID Number | Test Series Number | |
|--|--------------|----------------|--------------|-----------|--------|-------------------|------------------------------|---|---------|---------------------|--------------------|----------|
| | | | | | | | | | | | | |
| NB99-304 | 500058024 | 09/14/99 | 10/08/99 | 24 | 5 | 47% | 3.382 | 53% | 56% | Yes | 0.001 | 8141 -1 |
| NB99-306 | 500060024 | 09/14/99 | 10/08/99 | 24 | 5 | 76% | 6.177 | 24% | 26% | Yes | 0.001 | 8141 -2 |
| NB99-309 | 5061024 | 10/07/99 | 10/29/99 | 22 | 5 | 10% | 1.414 | 90% | 98% | No | 0.368 | 8141 -68 |
| NB99-310 | 500062024 | 09/14/99 | 10/08/99 | 25 | 5 | 53% | 6.560 | 47% | 50% | Yes | 0.008 | 8141 -3 |
| NB99-311 | 500063024 | 09/14/99 | 10/08/99 | 25 | 5 | 33% | 2.498 | 67% | 71% | Yes | 0.002 | 8141 -4 |
| NB99-317 | 5064024 | 10/07/99 | 10/29/99 | 22 | 5 | 12% | 1.356 | 88% | 96% | No | 0.211 | 8141 -71 |
| NB99-318 | 5065024 | 10/10/99 | 10/26/99 | 16 | 5 | 39% | 4.214 | 61% | 67% | Yes | 0.006 | 8141 -58 |
| NB99-323 | 5066024 | 10/07/99 | 10/29/99 | 22 | 5 | 25% | 1.897 | 75% | 82% | Yes | 0.003 | 8141 -69 |
| NB99-324 | 5067024 | 10/07/99 | 10/29/99 | 22 | 5 | 13% | 2.154 | 87% | 95% | No | 0.258 | 8141 -70 |
| NB99-325 | 5068024 | 10/10/99 | 10/26/99 | 16 | 5 | 25% | 3.633 | 75% | 82% | Yes | 0.043 | 8141 -59 |
| NB99-331 | 500071024 | 09/15/99 | 10/08/99 | 23 | 5 | 35% | 2.280 | 65% | 69% | Yes | 0.003 | 8141 -5 |
| NB99-332 | 5072024 | 10/07/99 | 10/29/99 | 22 | 5 | 16% | 3.868 | 84% | 91% | No | 0.305 | 8141 -75 |
| NB99-333 | 5073024 | 10/08/99 | 10/29/99 | 21 | 5 | 19% | 1.833 | 81% | 88% | Yes | 0.023 | 8141 -73 |
| NB99-334 | 5074024 | 10/08/99 | 10/29/99 | 21 | 5 | 16% | 2.135 | 84% | 91% | No | 0.132 | 8141 -64 |
| NB99-335 | 5075024 | 10/08/99 | 10/26/99 | 18 | 5 | 16% | 2.561 | 84% | 92% | No | 0.795 | 8141 -60 |
| NB99-338 | 5076024 | 10/07/99 | 10/29/99 | 22 | 5 | 15% | 2.966 | 85% | 92% | No | 0.267 | 8141 -76 |
| NB99-339 | 5077024 | 10/07/99 | 10/26/99 | 19 | 5 | 26% | 5.879 | 74% | 81% | No | 0.946 | 8141 -62 |
| NB99-340 | 5078024 | 10/08/99 | 10/29/99 | 21 | 5 | 10% | 1.549 | 90% | 98% | No | 0.360 | 8141 -74 |
| NB99-341 | 5079024 | 10/08/99 | 10/26/99 | 18 | 5 | 21% | 0.980 | 79% | 87% | Yes | 0.002 | 8141 -61 |
| NB99-345 | 5081024 | 10/07/99 | 10/29/99 | 22 | 5 | 11% | 1.166 | 89% | 97% | No | 0.812 | 8141 -63 |
| NB99-346 | 5082024 | 10/08/99 | 10/29/99 | 21 | 5 | 11% | 1.327 | 89% | 97% | No | 0.643 | 8141 -72 |
| NB99-349 | 500083024 | 09/15/99 | 10/08/99 | 23 | 5 | 17% | 1.497 | 83% | 88% | Yes | 0.020 | 8141 -6 |
| NB99-352 | 500085024 | 09/15/99 | 10/08/99 | 23 | 5 | 34% | 0.980 | 66% | 70% | Yes | 0.000 | 8141 -7 |
| Reference Sediment Samples from Central Long Island Sound | | | | | | | | | | | | |
| CLS-1 | | | | 5 | 6% | 1.166 | 94% | | | | | |
| CLS-2 | | | | 5 | 8% | 0.800 | 92% | | | | | |
| CLS-3 | | | | 5 | 9% | 1.327 | 91% | | | | | |
| CLS-4 | | | | 5 | 9% | 0.748 | 91% | | | | | |
| CLS-5 | | | | 5 | 8% | 0.800 | 92% | | | | | |
| CLS-6 | | | | 5 | 4% | 1.166 | 96% | | | | | |

APPENDIX 9

SPECIES IDENTIFIED FROM THE 1999 NEW BEDFORD HARBOR SAMPLES

APPENDIX 9
SPECIES IDENTIFIED FROM THE 1999 NEW BEDFORD HARBOR SAMPLES (SUPERSCRIPTS ^{1,2,3})
INDICATE AREAS OF OCCURRENCE; ASTERISKS * INDICATE SPECIES EXCLUDED FROM COMMUNITY ANALYSIS).

CNIDARIA

- Actinothoe* sp. 1³
- Ceriantheopsis americana* (Verrill, 1866)³
- Edwardsia elegans* Verrill, 1869^{2,3}

PLATYHELMINTHES

- Turbellaria* spp.³

NEMERTEA

- Amphiporus angulatus* (Fabricius, 1774)^{2,3}
- Amphiporus bioculatus* McIntosh, 1873³
- Amphiporus cruentatus* Verrill, 1879³
- Amphiporus groenlandicus* Oersted, 1844³
- Carinomella lactea* Coe, 1905^{2,3}
- Carinoma tremaphoros* Thompson, 1900³
- Cerebratulus lacteus* (Leidy, 1851)^{2,3}
- Micrura* spp.³

PRIAPULA

- Priapulus caudatus* Lamarck, 1816³

SIPUNCULA

- Phascolion strombi* (Montagu, 1804)³
- Phascolopsis gouldii* (Pourtales, 1851)³

ANNELIDA

Polychaeta

- Acrocirridae**
Macrochaeta sp. 1³
- Ampharetidae**

- Ampharete finmarchica* (Sars, 1864)³
- Melinna cristata* (Sars, 1851)^{2,3}

Capitellidae

- Capitella capitata complex* (Fabricius, 1780)^{1,2,3}
- Capitella jonesi* Hartman, 1940^{1,2,3}
- Heteromastus filiformis* (Claparède, 1864)^{1,2,3}
- Mediomastus ambiseta* Hartman, 1947^{1,2,3}
- Notomastus latericeus* Sars, 1850^{1,2,3}

Chaetopteridae

- Spiochaetopterus oculatus* Webster, 1879³

Cirratulidae

- Aphelochaeta marioni* (Saint-Joseph, 1894)³
- Aphelochaeta* nr. *monilaris* (Hartman, 1960)³
- Cauilleriella* sp. A³
- Cauilleriella* sp. B³
- Chaetozone* spp.³
- Cirratulus* sp. 1^{2,3}
- Cirriformia grandis* (Verrill, 1873)³
- Dodecaceria* spp.²
- Monticellina baptistae* Blake, 1991³
- Monticellina dorsobranchialis* (Kirkegaard, 1959)³
- Tharyx acutus* Webster & Benedict, 1887^{1,2,3}

Dorvilleidae

- Dorvillea* (*Schistomerings*) *rudolphii* (delle Chiaje, 1828)^{2,3}
- Parougia caeca* (Webster & Benedict, 1884)³
- Protodorvillea gaspeensis* Pettibone, 1961³

Flabelligeridae

- Pherusa affinis* (Leidy, 1855)³

Glyceridae

- Glycera americana* Leidy, 1855^{2,3}
- Glycera* sp. 1^{2,3}

Goniadidae

- Glycinde solitaria* (Webster, 1879)^{1,2,3}

Hesionidae

- Gyptis vittata* Webster & Benedict, 1887^{1,2,3}
- Microphthalmus aberrans* (Webster & Benedict, 1887)^{1,2}
- Microphthalmus szekelkowii* Mecanikow, 1865^{2,3}
- Pokarke obscura* Verrill, 1873^{1,2,3}

Lumbrineridae

- Ninoe nigripes* Verrill, 1873³
- Paraninoe brevipes* (McIntosh, 1903)³
- Scoletoma aciculatum* (Webster & Benedict, 1887)³
- Scoletoma hebes* (Verrill, 1880)³
- Scoletoma tenuis* (Verrill, 1873)^{2,3}

Maldanidae

- Asychis elongata* (Verrill, 1873)³
- Axiothella* sp. A³
- Clymenella torquata* (Leidy, 1855)³
- Euclymene collaris* (Claparède, 1870)^{2,3}
- Maldane sarsi* Malmgren, 1865³

Nephtyidae

- Nephys cornuta* Berkeley & Berkeley, 1945³
- Nephys incisa* Malmgren, 1865³
- Nephys picta* Ehlers, 1868³

Nereididae

- Nereis arenaceodonta* Moore, 1903³
- Nereis grayi* Pettibone, 1956³
- Neanthes succinea* (Frey & Leuckart, 1847)^{1,2,3}
- Platynereis dumerilii* (Audouin & Milne-Edwards, 1833)^{2,3}

Oenonidae

- Arabella iricolor* (Montagu, 1804)³
- Drilonereis longa* Webster, 1879^{2,3}
- Notocirrus spiniferus* (Moore, 1906)³

Onuphidae

- Diopatra cuprea* (Bosc, 1802)³

Orbiniidae

- Leitoscoloplos acutus* (Verrill, 1873)^{1,3}
- Leitoscoloplos robustus* (Verrill, 1873)^{1,2,3}
- Scoloplos* (*Leodamas*) *rubra* (Webster, 1879)³

Oweniidae

- Owenia fusiformis* Delle Chiaje, 1844³

Paraonidae

- Aricidea catherinae* Laubier, 1967³
- Cirrophorus furcatus* (Hartman, 1957)³
- Levinsenia gracilis* (Tauber, 1879)³
- Paradoneis lyra* Southern, 1914³
- Paraonis fulgens* (Levinse, 1883)³

Pectinariidae

- Pectinaria gouldii* (Verrill, 1873)^{1,2,3}

Phyllodocidae

- Eteone heteropoda* Hartman, 1951^{1,2,3}
- Eteone trilineata* Webster & Benedict, 1887²
- Eulalia bilineata* (Johnston, 1840)²
- Eumida sanguinea* (Oersted, 1843)^{1,2,3}
- Paranaitis speciosa* (Webster, 1880)²
- Phyllodoce arenae* Webster, 1879^{1,2,3}

Pilargidae

- Ancistrosyllis hartmanae* Pettibone, 1966^{2,3}
- Cabira incerta* Webster, 1879³

Pisionidae

- Pisone remota* (Southern, 1914)³

Polygordiidae

- Polygordius* sp. A^{2,3}

Polynoidae

- Lagisca extenuata* (Grube, 1840)³
- Lepidonotus sublevis* Verrill, 1873³
- Harmothoe* ? *nodososa* (Sars, 1860)³

Sabellariidae

- Sabellaria vulgaris* Verrill, 1873²

Serpulidae

- Hydroides dianthus* (Verrill, 1873)^{1,2,3*}

Sigalionidae

- Sthenelais boa* (Johnston, 1833)^{2,3}

Sphaerodoridae

- Sphaerodoropsis minuta* (Webster & Benedict, 1887)³

| | |
|-----------------|---|
| Spionidae | |
| | <i>Boccardiella hamata</i> (Webster, 1879) ^{2,3} |
| | <i>Carazziella hobsonae</i> Blake, 1979 ³ |
| | <i>Dipolydora commensalis</i> Andrews, 1891 ⁴ * |
| | <i>Dipolydora concharum</i> (Verrill, 1880) ³ |
| | <i>Dipolydora giardi</i> (Mesnil, 1896) ² |
| | <i>Dipolydora socialis</i> (Schmarda, 1861) ^{2,3} |
| | <i>Polydora cornuta</i> Bosc, 1802 ^{1,2,3} |
| | <i>Polydora neocaeca</i> Williams, 1999 ² * |
| | <i>Polydora websteri</i> Hartman, 1943 ³ |
| | <i>Prionospio heterobranchia</i> Moore, 1907 ^{1,2,3} |
| | <i>Prionospio (Minusprio) perkinsi</i> Maciolek, 1985 ^{1,2,3} |
| | <i>Scolelepis bousfieldi</i> Pettibone, 1963 ^{2,3} |
| | <i>Scolelepis texana</i> Foster, 1971 ^{2,3} |
| | <i>Spio setosa</i> Verrill, 1873 ^{2,3} |
| | <i>Spiophanes bombyx</i> (Claparède, 1870) ³ |
| | <i>Streblospio benedicti</i> Webster, 1879 ^{1,2,3} |
| Syllidae | |
| | <i>Autolytus prolifer</i> (O.F. Müller, 1788) ² |
| | <i>Brania clavata</i> (Claparède, 1863) ^{2,3} |
| | <i>Brania wellfleetensis</i> Pettibone, 1956 ³ |
| | <i>Eusyllis lamelligera</i> Marion & Bobretzky, 1875 ³ |
| | <i>Exogone dispar</i> (Webster, 1879) ^{2,3} |
| | <i>Odontosyllis fulgorans</i> Claparède, 1864 ³ |
| | <i>Parapionosyllis longicirrata</i> (Webster & Benedict, 1884) ³ |
| | <i>Sphaerosyllis longicauda</i> Webster & Benedict, 1887 ³ |
| | <i>Sphaerosyllis taylori</i> Perkins, 1981 ³ |
| | <i>Streptosyllis ? varians</i> Webster & Benedict, 1887 ³ |
| | <i>Syllides cf. verrilli</i> Moore, 1908 ³ |
| | <i>Typosyllis alternata</i> (Moore, 1908) ³ |
| | <i>Typosyllis regulata</i> Imajima, 1966 ³ |
| Terebellidae | |
| | <i>Amphitrite johnstoni</i> Malmgren, 1866 ² |
| | <i>Pista cristata</i> (O.F. Müller, 1776) ³ |
| | <i>Pista maculata</i> Marenzeller, 1884 ³ |
| | <i>Pista palmata</i> (Verrill, 1873) ³ |
| | <i>Polycirrus eximius</i> (Leidy, 1855) ^{2,3} |
| Oligochaeta | |
| | <i>Oligochaeta</i> spp. ^{1,2,3} |
| CRUSTACEA | |
| Amphipoda | |
| Ampeliscidae | |
| | <i>Ampelisca abdita</i> Mills, 1864 ^{2,3} |
| | <i>Ampelisca macrocephala</i> Lilljeborg, 1852 ³ |
| | <i>Ampelisca vadorum</i> Milla, 1963 ^{2,3} |
| | <i>Ampelisca verrilli</i> Mills, 1967 ³ |
| Ampithoidae | |
| | <i>Ampithoe valida</i> Smith, 1873 ³ |
| | <i>Cymadusa compta</i> (Smith, 1873) ^{1,2} |
| Aoridae | |
| | <i>Lembos smithi</i> Holmes, 1905 ³ |
| | <i>Microdeutopus gryllotalpa</i> Costa, 1853 ^{1,2} |
| | <i>Microdeutopus anomalus</i> (Rathke, 1843) ³ |
| | <i>Rudilemboides naglei</i> Bousfield, 1973 ³ |
| Bateidae | |
| | <i>Batea catherinensis</i> Muller, 1865 ³ |
| Caprellidae | |
| | <i>Luconacia incerta</i> Mayer, 1903 ³ * |
| | <i>Paracaprella tenuis</i> Mayer, 1903 ^{1,2,3} * |
| Corophiidae | |
| | <i>Apocorophium acutum</i> (Chevreux, 1908) ^{1,3} |
| | <i>Erichthonius brasiliensis</i> (Dana, 1853) ³ |
| | <i>Monocorophium acherusicum</i> (Costa, 1857) ² |
| | <i>Unciola dissimilis</i> Shoemaker, 1945 ³ |
| | <i>Unciola irrorata</i> Say, 1818 ³ |
| Crangonycidae | |
| | <i>Crangonyx pseudogracilis</i> Bousfield, 1958 ³ |
| Gammaridae | |
| | <i>Gammarus mucronatus</i> (Say, 1818) ^{1,3} |
| | <i>Gammarus oceanicus</i> Segerstrale, 1947 ³ |
| Isaeidae | |
| | <i>Microprotopus raneyi</i> Wigley, 1966 ^{2,3} |
| Ischyroceridae | |
| Jassa marmorata | Holmes, 1903 ³ |
| Liljeborgiidae | |
| | <i>Listriella barnardi</i> Wigley, 1966 ³ |
| Lysianassidae | |
| | <i>Lysianopsis alba</i> Holmes, 1905 ³ |
| Melitidae | |
| | <i>Elasmopus laevis</i> Smith, 1873 ³ |
| | <i>Melita nitida</i> Smith, 1873 ^{1,2} |
| Oedicerotidae | |
| | <i>Ameroculodes</i> sp. 1 ³ |
| Phoxocephalidae | |
| | <i>Eobrolgus spinosus</i> (Holmes, 1905) ³ |
| | <i>Phoxocephalus holboelli</i> (Krøyer, 1842) ³ |
| | <i>Rhepoxynius hudsoni</i> Barnard & Barnard, 1982 ³ |
| Stenothoidae | |
| | <i>Stenothoe minuta</i> Holmes, 1905 ¹ |
| Cephalocarida | |
| | <i>Hutchinsoniella macracantha</i> Sanders, 1955 ^{2,3} |
| Cirripedia | |
| Balanidae | |
| | <i>Balanus venustus</i> Darwin, 1854 ^{2,3} * |
| Cumacea | |
| Diastylidae | |
| | <i>Oxyurostylis smithi</i> Calman, 1912 ^{2,3} |
| Leuconidae | |
| | <i>Leucon americanus</i> Zimmer, 1943 ^{2,3} |
| Decapoda | |
| Cancridae | |
| | <i>Cancer irroratus</i> Say, 1817 ³ |
| Crangonidae | |
| | <i>Crangon septemspinosa</i> (Say, 1818) ^{1,2,3} |
| Hippolytidae | |
| | <i>Hippolyte zostericola</i> (Smith, 1873) ² |
| Majidae | |
| | <i>Hyas araneus</i> (Linnaeus, 1758) ³ |
| | <i>Hyas coarctatus</i> Leach, 1815 ³ |
| | <i>Libinia dubia</i> H. Milne Edwards, 1834 ^{2,3} |
| Paguridae | |
| | <i>Pagurus annulipes</i> Stimpson, 1860 ^{2,3} |
| | <i>Pagurus lonigicarpus</i> Say, 1817 ¹ |
| Palaemonidae | |
| | <i>Palaemonidetes vulgaris</i> Say, 1818 ^{1,2} * |
| Parthenoopidae | |
| | <i>Heterocrypta granulata</i> (Gibbes, 1850) ³ |
| Pinnotheridae | |
| | <i>Pinnixa chaetopterana</i> Stimpson, 1860 ³ |
| | <i>Pinnixa sayana</i> Stimpson, 1860 ^{2,3} |
| | <i>Zaops ostreum</i> (Say, 1817) ³ |
| Porcellanidae | |
| | <i>Polyonyx gibbesi</i> Haig, 1956 ^{2,3} |
| Portunidae | |
| | <i>Callinectes sapidus</i> Rathbun, 1896 ^{1,2,3} |
| Upogebiidae | |
| | <i>Upogebia affinis</i> Say, 1818 ² |
| Xanthidae | |
| | <i>Dyspanopeus sayi</i> (Smith, 1869) ^{1,2,3} |
| | <i>Eurypanopeus depressus</i> (Smith, 1869) ² |
| | <i>Hexapanopeus angustifrons</i> (Benedict & Rathbun, 1891) ³ |
| | <i>Panopeus herbstii</i> H. Milne Edwards, 1834 ³ |
| Isopoda | |
| Anthuriidae | |
| | <i>Ptilanthuria tenuis</i> Harger, 1879 ³ |
| Idoteidae | |
| | <i>Edotia triloba</i> (Say, 1818) ^{1,2,3} |
| Janiridae | |
| | <i>Ianiropsis</i> sp. 1 ² |

| | |
|--|--|
| Mysidacea | |
| Mysidae | |
| <i>Heteromysis formosa</i> S.I. Smith, 1873 ³ | |
| <i>Neomysis americana</i> (S.I. Smith, 1873) ¹ | |
| Tanaidacea | |
| Leptocheiliidae | |
| <i>Leptocheilia dubia</i> (Krøyer, 1842) ³ | |
| MOLLUSCA | |
| Bivalvia | |
| Anomiidae | |
| <i>Anomia simplex</i> Orbigny, 1842 ^{2,3} * | |
| Arcidae | |
| <i>Anadara transversa</i> (Say, 1822) ^{2,3} | |
| Astartidae | |
| <i>Astarte castanea</i> (Say, 1822) ³ | |
| Cardiidae | |
| <i>Cerastoderma pinnulatum</i> (Conrad, 1831) ³ | |
| <i>Laevicardium mortoni</i> (Conrad, 1830) ^{2,3} | |
| Carditidae | |
| <i>Crassinella lunulata</i> (Conrad, 1834) ³ | |
| Corbulidae | |
| <i>Corbula contracta</i> Say, 1822 ³ | |
| Leptonidae | |
| <i>Montacutidae percompressa</i> Dall, 1899 ³ | |
| <i>Mysella planulata</i> (Stimpson, 1857) ^{1,2,3} | |
| Liidae | |
| <i>Lyonsia hyalina</i> Conrad, 1831 ^{2,3} | |
| Mactridae | |
| <i>Mulinia lateralis</i> (Say, 1822) ^{1,2,3} | |
| Ostreidae | |
| <i>Crassostrea virginica</i> (Gmelin, 1791) ^{1,3} * | |
| Montacutidae | |
| <i>Pythinella cuneata</i> Dall, 1899 ³ | |
| Myidae | |
| <i>Mya arenaria</i> Linnaeus, 1758 ^{1,2} | |
| Mytilidae | |
| <i>Mytilus edulis</i> Linnaeus, 1758 ³ * | |
| Nuculidae | |
| <i>Nucula annulata</i> Hampson, 1971 ^{2,3} | |
| <i>Nucula delphinodonta</i> Mighels & Adams, 1842 ³ | |
| <i>Nucula proxima</i> Say, 1822 ³ | |
| <i>Yoldia limatula</i> (Say, 1831) ³ | |
| <i>Yoldia sapotilla</i> (Gould, 1841) ³ | |
| Petricolidae | |
| <i>Petricola pholadiformis</i> ^{1,2,3} | |
| Semelidae | |
| <i>Cumingia tellinoides</i> (Conrad, 1831) ³ | |
| Solemyidae | |
| <i>Solemya velum</i> Say, 1822 ^{2,3} | |
| Solenidae | |
| <i>Ensis directus</i> Conrad, 1843 ² | |
| Tellinidae | |
| <i>Macoma tenta</i> (Say, 1834) ^{1,2,3} | |
| <i>Tellina agilis</i> Stimpson, 1857 ^{1,2,3} | |
| Thyasiridae | |
| <i>Thyasira gouldii</i> Philippi, 1845 ^{2,3} | |
| Veneridae | |
| <i>Gemma gemma</i> (Totten, 1834) ^{1,2} | |
| <i>Mercenaria mercenaria</i> (Linnaeus, 1758) ^{1,2,3} | |
| <i>Pitar morrhuanus</i> Linsley, 1848 ^{2,3} | |
| Gastropoda | |
| Nudibranchia | |
| Corambidae | |
| <i>Coryphella pellucida</i> (Alder & Hancock, 1843) ² | |
| <i>Coryphella rufibranchialis</i> (Johnston, 1832) ³ | |
| Opisthobranchia | |
| Acteonidae | |
| <i>Rictaxis punctostriatus</i> (C.B. Adams, 1840) ^{1,2,3} | |
| Acteocinidae | |
| <i>Acteocina canaliculata</i> (Say, 1822) ^{2,3} | |
| Cylichnidae | |
| <i>Cylichna oryzana</i> (Totten, 1835) ³ | |
| Diaphanidae | |
| <i>Diaphana minuta</i> (Brown, 1827) ³ | |
| Haminoeidae | |
| <i>Haminoea solitaria</i> (Say, 1822) ^{1,2,3} | |
| Prosobranchia | |
| Calyptreidae | |
| <i>Crepidula convexa</i> Say, 1822 ^{1,2} * | |
| <i>Crepidula formicata</i> (Linnaeus, 1758) ^{2,3} * | |
| <i>Crepidula plana</i> Say, 1822 ^{2,3} | |
| Cerithiidae | |
| <i>Bittium alternatum</i> Say, 1822 ^{2,3} | |
| <i>Seila adamsi</i> (H.C. Lea, 1845) ^{2,3} | |
| Columbellidae | |
| <i>Anachis lafresnayi</i> (Fischer & Bernardi, 1856) ³ | |
| <i>Mitrella lunata</i> (Say, 1826) ^{1,2,3} | |
| Lacunidae | |
| <i>Lacuna vincta</i> (Montagu, 1803) ³ | |
| Hydrobiidae | |
| <i>Hydrobia truncata</i> (Vanatta, 1924) ^{1,2} | |
| <i>Spurwinkia salsa</i> (Pilsbry, 1905) ¹ | |
| Melanellidae | |
| <i>Melanella conoidea</i> Kurtz & Stimpson, 1851 ³ | |
| Melongenidae | |
| <i>Busycon carica</i> (Gmelin, 1791) ³ | |
| Nassariidae | |
| <i>Ilyanassa obsoleta</i> (Say, 1822) ¹ | |
| <i>Ilyanassa trivittata</i> (Say, 1822) ³ | |
| Naticidae | |
| <i>Neverita duplicata</i> (Say, 1822) ³ | |
| <i>Tectonatica pusilla</i> (Say, 1822) ³ | |
| Pyramidellidae | |
| <i>Boonea seminuda</i> (C.B. Adams, 1837) ^{2,3} | |
| <i>Fargoa bartschi</i> (Winkley, 1909) ^{2,3} | |
| <i>Odostomia eburnea</i> (Stimpson, 1851) ² | |
| <i>Turbanilla aequalis</i> (Say, 1827) ^{2,3} | |
| <i>Turbanilla areolata</i> (Verrill, 1873) ³ | |
| <i>Turbanilla elegantula</i> Verrill, 1882 ³ | |
| <i>Turbanilla sumneri</i> Bartsch, 1909 ³ | |
| Turridae | |
| <i>Kurtziella cerina</i> (Kurtz & Stimpson, 1851) ³ | |
| <i>Propebela turricula</i> (Montagu, 1803) ³ | |
| Turritellidae | |
| <i>Turritellopsis acicula</i> (Stimpson, 1851) ³ | |
| Polyplacophora | |
| <i>Chaetopleura apiculata</i> (Say, 1830) ³ * | |
| ECHINODERMATA | |
| Holothuroidea | |
| <i>Epitonapta roseola</i> (Verrill, 1873) ^{2,3} | |
| Ophiuroidea | |
| <i>Axiognathus squamatus</i> (Delle Chiaje, 1828) ³ | |
| <i>Ophiura</i> spp. | |
| HEMICORDATA | |
| Saccoglossus kowalevskii Agassiz, 1873 ³ | |

APPENDIX 10

BENTHIC INFAUNAL DATA NEW BEDFORD HARBOR LONG-TERM MONITORING III

| New Bedford Harbor - 1999 | Barcode | 5001015 | 5001077 | 5002015 | 5002017 | 5003015 | 5003017 | 5004015 | 5004017 | 5005015 | 5005017 | 5006015 | 5006017 | 5007015 | 5007017 | 5008015 |
|----------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 1 - All Taxa | Station | 105 | 105 | 108 | 108 | 109 | 109 | 111 | 111 | 114 | 114 | 115 | 115 | 117 | 117 | 120 |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |
| Taxon | NODC Code | | | | | | | | | | | | | | | |
| Apocorophium acutum | 6169150213 | | | | | | | | | | | | | | | |
| Callinectes sapidus | 6189010301 | | | | | | | | | | | | | | | |
| Capitella capitata complex | 5001600101 | 2 | 1 | | | | | | | | | | | | | |
| Capitella Jonesi | 50016001JONE | | | | | | | | | | | | | | | 10 |
| Crangon septemspinosa | 6179220103 | | | | | | | | | | | | | | | |
| Crassostrea virginica | 5510020102 | | | | | | | | | | | | | | | |
| Crepidula convexa | 5103640205 | | | | | | | | | | | | | | | |
| Cymadusa compacta | 6169040201 | | | | | | | | | | | | | | | |
| Dyspanopeus sayi | 6189020703 | 1 | | | | | | | | | | | | | | |
| Edotia triloba | 6162020703 | 1 | | | | | | | | | | | | | | |
| Eleone heteropoda | 5001130207 | 69 | 31 | 59 | 135 | 47 | 54 | 38 | 20 | 29 | 15 | 21 | 27 | 15 | 111 | 115 |
| Eumida sanguinea | 5001131101 | | | | | | | | | | | | | | | |
| Gammarellus mucronatus | 6169210709 | | 1 | | | | | | | | | | | | | 1 |
| Gemma gemma | 5515471301 | 604 | 140 | 3 | 4 | 65 | 177 | 363 | 795 | 339 | 427 | 7 | 8 | 1640 | 8162 | 7738 |
| Glycinde solitaria | 5001280104 | | | | | | | | | | | | | | | 1 |
| Gyptis vilitata | 5001210103 | | | | | | | | | | | | | | | 1 |
| Haminoea solitaria | 5110120102 | 38 | 14 | | | 1 | 5 | 8 | 6 | 3 | | | | | | |
| Heleomastus filiformis | 5001600201 | | | | | | | | | | | | | | | |
| Hydrobia truncata | 5103130101 | 188 | | 4 | | | 1094 | 2029 | 580 | 2049 | 10 | 6 | 360 | 296 | | |
| Hydrobiidae spp. | 510313SPP | | | | | | | | | | | | | | | |
| Hydroides dianthus | 5001730901 | | | | | | | | | | | | | | | |
| Ilyanassa obsoleta | 5105080201 | 9 | 5 | | | 6 | | 15 | | 4 | 5 | 10 | 1 | 17 | 15 | 15 |
| Leitoscoloplos acutus | 5001400305 | | | | | | | | | | | | | | | |
| Leitoscoloplos robustus | 5001400304 | 1 | | | | 3 | | 1 | | | 1 | 1 | 2 | | | 5 |
| Leitoscoloplos spp. | 50014003SPP | 1 | 2 | | | | | | | | | 2 | | | | 1 |
| Macoma tenta | 5515310120 | | | | | | | | | | | | | | | |
| Mediomastus ambiseta | 5001600401 | | | | | | | | | | | | | | | |
| Melita nitida | 6169211006 | | | | | | | | | | | | | | | |
| Mercenaria mercenaria | 5515471101 | | | | | | | | | | | | | | | |
| Microdeutopus gryllopalpa | 6169060401 | | | | | | | | | | | | | | | |
| Microphthalmus aberrans | 5001210202 | | | | | | | | | | | | | | | |
| Mitrella lunata | 5105030207 | | | | | | | | | | | | | | | |
| Mulinia lateralis | 5515250301 | 25 | 13 | | | 6 | 5 | 14 | 20 | 12 | 9 | | | 52 | 11 | 25 |

| | | | | | | | | | | | | | | | | |
|--|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| New Bedford Harbor - 1999 | Barcode | 5001015 | 5001017 | 5002015 | 5002017 | 5003015 | 5003017 | 5004015 | 5004017 | 5005015 | 5005017 | 5006015 | 5006017 | 5007015 | 5007017 | 5008015 |
| Area 1 - All Taxa | Station | 105 | 105 | 108 | 108 | 109 | 109 | 111 | 111 | 114 | 114 | 115 | 115 | 117 | 117 | 120 |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |
| Taxon | NODC Code | | | | | | | | | | | | | | | |
| <i>Mya arenaria</i> | 5517010201 | 2 | 1 | | | | | | | 12 | 5 | 12 | | | 1 | 2 |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | 1 | | | | | | | | | | | | | | |
| <i>Neomysis americana</i> | 6153011508 | | | | | | | | | | | | | | | 1 |
| <i>Notomastus latericeus</i> | 5001600306 | | | 1 | | | | | | | | | | | | |
| <i>Oligochaeta</i> spp. | 5003 SPP | 31 | 9 | 17 | 19 | 1 | 10 | 30 | 54 | 4 | 15 | 3 | | 14 | 50 | 36 |
| <i>Pagurus longicarpus</i> | 6183060230 | | | | | | | | | | | | | | | |
| <i>Palaemonetes vulgaris</i> | 6179110304 | | | | | | | | | | | | | | | |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | | | | | | | | | | | | |
| <i>Pectinaria gooldii</i> | 5001660302 | | | | | | | | | | | | | | | |
| <i>Petricola pholadiformis</i> | 5515480102 | | | | | | | | | | | | | | | |
| <i>Phyllodoce arenas</i> | 5001131410 | | | | | | | | | | | | | | | |
| <i>Podaica obscura</i> | 5001211502 | | | | | | | | | | | | | | | |
| <i>Polydora cornuta</i> | 5001430448 | | | | | | | | | | | | | | | |
| <i>Prionospio (Minuspius) perkinsi</i> | 5001430517 | | | | | | | | | | | | | | | |
| <i>Prionospio heterobranchia</i> | 5001430503 | | | | | | | | | | | | | | | |
| <i>Rictaxis punctostriatus</i> | 5110010403 | | | | | | | | | | | | | | | |
| <i>Spunwinkia salsa</i> | 5103133601 | 31 | | 2 | 3 | 10 | 23 | 20 | 4 | 1 | 49 | 65 | | | | |
| <i>Stenothoe minuta</i> | 6169481002 | | | | | | | | | | | | | | | |
| <i>Streblospio benedicti</i> | 5001431801 | 556 | 329 | 108 | 164 | 130 | 143 | 267 | 143 | 147 | 55 | 48 | 109 | 70 | 28 | 118 |
| <i>Tellina agilis</i> | 5515310205 | | 3 | | | | | | | | | | | | 45 | 50 |
| <i>Tharyx acutus</i> | 5001500305 | | | | | | | | | | | | | | | 29 |
| Grand Total | | 1561 | 545 | 193 | 330 | 1353 | 2445 | 1346 | 3130 | 599 | 549 | 503 | 511 | 1866 | 8431 | 8087 |

| New Bedford Harbor - 1999 | Barcode | 5008017 | 5009015 | 5009017 | 5010015 | 5010017 | 5011015 | 5011017 | 5012015 | 5012017 | 5013015 | 5013017 | 5014015 | 5014017 | 5015015 | 5015017 |
|------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 1 - All Taxa | Station | 120 | 121 | | 123 | 125 | 125 | 126 | 126 | 128 | 128 | 130 | 130 | 131 | 131 | |
| | Replicate | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| Taxon | | | | | | | | | | | | | | | | |
| <i>Apocorophium acutum</i> | 6169150213 | | | | | | | | | | | | | | | |
| <i>Callinectes sapidus</i> | 6189010301 | | | | | | | | | | | | | | | |
| <i>Capitella capitata complex</i> | 5001600101 | 1 | | | 4 | 1 | 31 | 11 | 1 | 5 | 2 | | | | | |
| <i>Capitella jonesi</i> | 50016001JONE | 1 | | | | | | | | | | | | | 1 | 5 |
| <i>Crangon septemspinosa</i> | 6179220103 | | | | | | 1 | | | | | | | | | |
| <i>Crassostrea virginica</i> | 5510020102 | | | | | | | | | | | | | | | |
| <i>Crepidula convexa</i> | 5103640205 | 1 | | | | | | | | | | | | | | |
| <i>Cymadusa compacta</i> | 6169040201 | | | | | | | | | | | | | | | |
| <i>Dyspanopeus sayi</i> | 6189020703 | | | | | | | | | | | | | | | |
| <i>Edotia triloba</i> | 6162020703 | | | | 3 | | | | 1 | 1 | | | | | | |
| <i>Eteone heteropoda</i> | 5001130207 | 70 | | 83 | 38 | 44 | 26 | 17 | 95 | 96 | 16 | 7 | 38 | 13 | 55 | 31 |
| <i>Eumida sanguinea</i> | 5001131101 | | | | | | | | | | | | | | | |
| <i>Gammareus mucronatus</i> | 6169210709 | | | | | | | | | | | | | | | |
| <i>Gemma gemma</i> | 5515471301 | 4900 | 4821 | 3439 | 2 | 2 | 11 | | 258 | 612 | 4 | 2 | | | 1 | |
| <i>Glycinde solitaria</i> | 5001280104 | 2 | | | | | | | | | | | | | 1 | |
| <i>Gyptis vittata</i> | 5001210103 | | | | | | | | | | | | | | | |
| <i>Haminoea solitaria</i> | 5110120102 | | | | | | | | | | | | | | 1 | 3 |
| <i>Heteromastus filiformis</i> | 5001600201 | | | | | | | | | | | | | | 2 | |
| <i>Hydrobia truncata</i> | 5103130101 | | | | | | | 2 | 6 | | | | | | | |
| <i>Hydrobiidae spp.</i> | 510313SFPP | | | | | | | | | | | | | | | |
| <i>Hydrodoides dianthus</i> | 5001730901 | | | | | | | | | | | | | | | |
| <i>Ilyanassa obsoleta</i> | 5105080201 | 9 | 36 | 10 | | | 6 | 7 | 4 | 8 | 1 | 1 | 15 | 26 | 3 | 5 |
| <i>Leitoscoloplos aculus</i> | 5001400305 | | | | | | | | | | | | | | | |
| <i>Leitoscoloplos robustus</i> | 5001400304 | 1 | 1 | 5 | 2 | | | | 3 | 4 | 6 | 10 | | 10 | | |
| <i>Leitoscoloplos spp.</i> | 50014003SPP | 4 | | | | 8 | 11 | | 13 | 4 | | 4 | 23 | | 41 | 28 |
| <i>Macoma tenta</i> | 5515310120 | | | | 2 | | | | | | | | | | 1 | 2 |
| <i>Mediomastus ambiseta</i> | 5001600401 | | | | | | | | | | 1 | | | | 2 | |
| <i>Melita nitida</i> | 6169211006 | | | | | | | | | | | | | | | |
| <i>Mercenaria mercenaria</i> | 5515471101 | | | | 3 | 1 | | | 4 | | 5 | 3 | 1 | | 15 | 24 |
| <i>Microdeutopus gryllocephala</i> | 6169060401 | | | | | | | | | | | | | | | |
| <i>Microphthalmus aberrans</i> | 5001210202 | | | | | | | | | | | | | | | |
| <i>Mitrella lunata</i> | 5105030207 | | | | | | | | | | | | | | | |
| <i>Mulinia lateralis</i> | 5515250301 | 7 | 4 | 4 | 281 | 496 | 11 | 9 | 7 | 6 | 589 | 411 | 74 | 74 | 635 | 816 |

| | | | | | | | | | | | | | | | | | |
|---------------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----|
| New Bedford Harbor - 1999 | Barcode | 5008017 | 5009015 | 5009017 | 5010015 | 5010017 | 5011015 | 5011017 | 5012015 | 5012017 | 5013015 | 5013017 | 5014015 | 5014017 | 5015015 | 5015017 | |
| Area 1 - All Taxa | Station | 120 | 121 | 121 | 123 | 123 | 125 | 125 | 126 | 126 | 128 | 128 | 130 | 130 | 131 | 131 | |
| | Replicate | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | |
| | NODC Code | | | | | | | | | | | | | | | | |
| <i>Mya arenaria</i> | 5517010201 | | 2 | | | | | | | | 37 | 67 | | | 1 | 7 | 12 |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | | | | | 1 | | | | | | 2 | | | | 1 | |
| <i>Neomysis americana</i> | 6153011508 | | | | | 1 | | | | | | 1 | | | | 2 | |
| <i>Notomastus latericeus</i> | 5001600306 | | | | | | | | | | | | | | | | |
| <i>Oligochaeta spp.</i> | 5003SPP | 49 | 66 | 65 | 71 | 84 | 18 | 25 | 38 | 4 | 239 | 30 | 143 | 151 | 177 | 113 | |
| <i>Pagurus longicarpus</i> | 6183060230 | | | | | | | | | | | | | | | | |
| <i>Palaemonetes vulgaris</i> | 6179110304 | | | | | | | | | | | | | | | | |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | | | | | | | | | | | | | |
| <i>Pectinaria gouldii</i> | 5001660302 | | | | | | | | | | | | | | | | |
| <i>Petricola pholadiformis</i> | 5515480102 | | | | | | | | | | | | | | | | |
| <i>Phyllocoete arenae</i> | 5001131410 | | | | | | | | | | 4 | | | | | | |
| <i>Podarke obscura</i> | 5001211502 | | | | | | | | | | | | | | | | |
| <i>Polydora cornuta</i> | 5001430448 | | | | | | | | | | 22 | 3 | | | | | |
| <i>Prionospio (Minuspio) perkinsi</i> | 5001430517 | | | | | | | | | | | | | | | | |
| <i>Prionospio heterobranchia</i> | 5001430503 | | | | | | | | | | | | | | 1 | | |
| <i>Rictaxis punctostriatus</i> | 5110010403 | | | | | 1 | | | | | | | | | 1 | 5 | 1 |
| <i>Spunwinkia salsa</i> | 5103133601 | | | | | | | | | | | | | | | | |
| <i>Sternothoe minula</i> | 6169481002 | | | | | | | | | | | | | | | | |
| <i>Streblospio benedicti</i> | 5001431801 | 135 | 77 | 46 | 331 | 511 | 943 | 694 | 721 | 150 | 250 | 96 | 1496 | 985 | 675 | 660 | |
| <i>Tellina agilis</i> | 5515310205 | | 7 | 28 | 3 | 4 | | | | | 1 | | 1 | | | 1 | |
| <i>Tharyx acutus</i> | 5001500305 | 13 | | | | | | | | | 140 | 11 | 1 | 1 | 1 | 12 | |
| Grand Total | | 5187 | 5020 | 3680 | 743 | 1151 | 1058 | 767 | 1354 | 978 | 1129 | 556 | 1793 | 1272 | 1631 | 1698 | |

| New Bedford Harbor - 1999 | Barcode | 5016015 | 5016017 | 5017015 | 5017017 | 5018015 | 5018017 | 5019015 | 5019017 | 5020015 | 5020017 | 5021015 | 5021017 | 5022015 | 5022017 | 5023015 |
|----------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 1 - All Taxa | Station | 134 | 134 | 135 | 135 | 138 | 138 | 139 | 139 | 140 | 140 | 146 | 146 | 147 | 147 | 150 |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |
| Taxon | | | | | | | | | | | | | | | | |
| Apocorophium acutum | 6169150213 | | | | | | | | | | | | | | | |
| Callinectes sapidus | 6189010301 | 1 | 2 | | | | | | | | | | | | | |
| Capitella capitata complex | 5001600101 | 2 | | 22 | 25 | | | | 1 | 1 | | | | | | |
| Capitella Jonesi | 50016001JONE | | | 2 | 3 | | | | | | 1 | | | | 1 | 5 |
| Crangon septemspinosa | 6179220103 | | | | | 1 | | | | | 1 | | | | | |
| Crassostrea virginica | 5510020102 | | | | | | | | | | | | | | | |
| Crepidula convexa | 5103640205 | | | 8 | 4 | | | | | | | | | | 3 | 7 |
| Cymadusa compia | 6169040201 | | | | | | | | | | | | | | | |
| Dyspanopeus sayi | 6189020703 | | | | | | | | | | | | | | | 1 |
| Edolia triloba | 6162020703 | | | | | | | | | | | | | | | |
| Eteone heteropoda | 5001130207 | 40 | 26 | 23 | 28 | 37 | 32 | 56 | 22 | 33 | 27 | 12 | 15 | 2 | 21 | 20 |
| Eumida sanguinea | 5001131101 | | | | | | | | | | | | | | | |
| Gammarellus mucronatus | 6169210709 | | | | | | | | | | | | | | | |
| Gemma gemma | 5515471301 | 3 | 4 | 3 | | | | | 4 | 5 | | | | 1 | 2 | |
| Glycinde solitaria | 5001280104 | | | | | | | | | 2 | | | | | | |
| Gyptis vitata | 5001210103 | | | | | | | | | | | | | | | |
| Haminoea solitaria | 5110120102 | 2 | 10 | | 2 | | | | 12 | 2 | | | | | | |
| Heteromastus filiformis | 5001600201 | | | 3 | | | | | | | | | | | | |
| Hydrobia truncata | 5103130101 | | | | | | | | | | | | | | | |
| Hydrobiidae spp. | 510313SPP | | | | | | | | | | | | | | | |
| Hydrodoides dianthus | 5001730901 | | | | | | | | | | | | | | | |
| Ilyanassa obsoleta | 5105080201 | 6 | 7 | 11 | 25 | | 31 | 5 | 2 | | | | | 22 | 5 | 5 |
| Leitoscoloplos acutus | 5001400305 | | | | | | | | 1 | | | | | | | |
| Leitoscoloplos robustus | 5001400304 | 46 | | 3 | 36 | 3 | | 77 | | 29 | 2 | 3 | 2 | 5 | 1 | |
| Leitoscoloplos spp. | 50014003SPP | 1 | 15 | | 9 | 22 | | 46 | 4 | | 9 | 16 | | 14 | 18 | |
| Macoma tenta | 5515310120 | | | | | | | | | 1 | | | | | | |
| Mediomastus ambiseta | 5001600401 | 3 | 10 | | 1 | | | 14 | 5 | 4 | 3 | 4 | | | 1 | |
| Melita nitida | 6169211006 | | | | | | | | | | | | | | | |
| Mercenaria mercenaria | 5515471101 | 2 | 3 | | 8 | | | 17 | 5 | 32 | 15 | 157 | 19 | 1 | 7 | 16 |
| Microdeutopus gryllokalpa | 6169060401 | | | | | | | | | | | | | | | |
| Microphthalmus aberrans | 5001210202 | | | | | | | | | | | | | | | |
| Mitrella lunata | 5105030207 | | | | | | | | | | | | 1 | | | |
| Mulinia lateralis | 5515250301 | 353 | 751 | 1 | 3 | 117 | 118 | 151 | 134 | 863 | 858 | 74 | 32 | 4 | 264 | |

| New Bedford Harbor - 1999 | Barcode | 5016015 | 5016017 | 5017015 | 5017017 | 5018015 | 5018017 | 5019015 | 5019017 | 5020015 | 5020017 | 5021015 | 5021017 | 5022015 | 5022017 | 5023015 |
|--|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 1 - All Taxa | Station | 134 | 134 | 135 | 135 | 138 | 138 | 139 | 139 | 140 | 140 | 146 | 146 | 147 | 147 | 150 |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 |
| Taxon | NODC Code | | | | | | | | | | | | | | | |
| <i>Mya arenaria</i> | 5517010201 | 1 | | 9 | 11 | 1 | 1 | | | 1 | | 7 | | 2 | | 1 |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | | | 1 | | | | 2 | | | | | | | | |
| <i>Neomysis americana</i> | 6153011508 | 5 | | | | | | | | | | 1 | | | | |
| <i>Notomastus latericeus</i> | 5001600306 | | | 2 | | | | | | | | | | | | 1 |
| Oligochaeta spp. | 5003SPP | 155 | 141 | 79 | 54 | 5 | 11 | 99 | 114 | 98 | 80 | 87 | 32 | 49 | 60 | 44 |
| <i>Pagurus longicarpus</i> | 6183060230 | | | | | | | | | | | 1 | | | | |
| <i>Palaemonetes vulgaris</i> | 6179110304 | | | | | | | | | | | | | | | |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | | | | | | | | | | | | |
| <i>Pectinaria gouldii</i> | 5001660302 | | | 1 | | | | | | | | | | | | |
| <i>Petricola pholadiformis</i> | 5515480102 | | | | | | | | | | | | | | | |
| <i>Phyllocoete arenae</i> | 5001131410 | | | | | | | | | | | | | | | |
| <i>Podaikia obscura</i> | 5001211502 | | | | | | | | | | | | | | | |
| <i>Polydora cornuta</i> | 5001430448 | 2 | | 4 | 21 | | | | | | | 2 | 1 | 13 | 12 | 14 |
| <i>Prionospio (Minuspius) perkinsi</i> | 5001430517 | | | | | | | | | | | | | | | 1 |
| <i>Prionospio heterobranchia</i> | 5001430503 | | | | | | | | | | | | | | | 1 |
| <i>Rictaxis punctostriatus</i> | 5110010403 | 1 | 2 | | | | | 1 | | 5 | 5 | | | | | |
| <i>Spunwinkia salsa</i> | 5103133601 | | | | | | | | | | | | | | | |
| <i>Stenothoe minula</i> | 6169481002 | | | | | | | | | | | | | | | |
| <i>Streblospio benedicti</i> | 5001431801 | 543 | 407 | 471 | 490 | 365 | 192 | 713 | 583 | 494 | 377 | 264 | 181 | 144 | 538 | 274 |
| <i>Tellina agilis</i> | 5515310205 | 1 | | 1 | | | | | 1 | 2 | | | | | | |
| <i>Tharyx acutus</i> | 5001500305 | 4 | 2 | | 101 | | 1 | | 5 | 1 | 90 | 8 | 18 | 14 | 1 | |
| Grand Total | | 1167 | 1365 | 644 | 804 | 565 | 377 | 1187 | 922 | 1556 | 1399 | 705 | 310 | 278 | 746 | 661 |

| New Bedford Harbor - 1999 | Barcode | 5023017 | 5024015 | 5024017 | 5025015 | 5025017 | 5026015 | 5026016 | 5027015 | 5027017 |
|----------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 1 - All Taxa | Station | 150 | 151 | 151 | 152 | 152 | 154 | 154 | 155 | 155 |
| | Replicate | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 |
| Taxon | NODC Code | | | | | | | | | Total |
| Apocorophium aculum | 6169150213 | | | | | | | 2 | | 2 |
| Callinectes sapidus | 6189010301 | 1 | | | | | | | | 5 |
| Capitella capitata complex | 5001600101 | | | | | | | | | 266 |
| Capitella jonesi | 50016001JONE | | | | | 7 | 1 | 1 | 21 | 4 |
| Crangon septemspinosa | 6179220103 | | | | | | | | | 1 |
| Crassostrea virginica | 5510020102 | | | | | | 1 | | | 1 |
| Crepidula convexa | 5103640205 | | | | | | 1 | | | 26 |
| Cymadusa compla | 6169040201 | | | | | | | 6 | | 6 |
| Dyspanopeus sayi | 6189020703 | | | | | | 1 | | | 3 |
| Edotia triloba | 6162020703 | | | | | | | | | 15 |
| Eteone heteropoda | 5001130207 | 13 | 16 | 5 | 16 | 23 | 14 | 55 | 23 | 1974 |
| Eumida sanguinea | 5001131101 | | | | | 2 | | | | 2 |
| Gammareus mucronatus | 6169210709 | | | | | | | | | 2 |
| Gemma gemma | 5515471301 | 1 | | | | 1 | 18 | 148 | 11 | 34725 |
| Glycinde solitaria | 5001280104 | 2 | | | | | | | | 9 |
| Gyptis vittata | 5001210103 | | | | | 2 | | | | 3 |
| Haminoea solitaria | 5110120102 | | | | | | | | | 110 |
| Heteromastus filiformis | 5001600201 | | | | | 5 | 1 | | | 9 |
| Hydrobia truncata | 5103130101 | | | | | | | | | 6624 |
| Hydrobiidae spp. | 510313SPP | | | | | | | | | 1 |
| Hydroides dianthus | 5001730901 | | | | | 33 | | | | 33 |
| Ilyanassa obsoleta | 5105080201 | 10 | | | 12 | 6 | | 2 | | 382 |
| Leitoscoloplos acutus | 5001400305 | | | | | | | | | 1 |
| Leitoscoloplos robustus | 5001400304 | 14 | | | | | 2 | 5 | | 284 |
| Leitoscoloplos spp. | 50014003SPP | | 20 | 6 | 20 | 12 | 2 | 5 | | 361 |
| Macoma tenta | 5515310120 | | | | | | | | | 6 |
| Mediomastus ambiseta | 5001600401 | 1 | | | | 3 | 12 | | | 64 |
| Melita nitida | 6169211006 | | | | | | | 8 | | 8 |
| Mercenaria mercenaria | 5515471101 | 25 | 14 | 5 | 26 | 34 | 1 | 1 | | 444 |
| Microdeutopus grylliotalpa | 6169060401 | 2 | | | | 1 | | 3 | | 9 |
| Microphthalmus aberrans | 5001210202 | | | | | | | | | 1 |
| Mitrella lunata | 5105030207 | | | | | | 1 | | | 2 |
| Mulinia lateralis | 5515250301 | 106 | 3 | 3 | 6 | 21 | 1 | | | 7479 |

| New Bedford Harbor - 1999 | Barcode | 5028015 | 5028017 | 5029015 | 5029016 | 5030015 | 5030017 | 5031016 | 5031017 | 5032015 | 5032017 | 5033015 | 5033017 | 5034015 | 5034016 | 5035015 |
|--|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 2 - All Taxa | Station | 202 | 202 | 204 | 204 | 207 | 207 | 208 | 208 | 211 | 212 | 212 | 216 | 216 | 217 | |
| Taxon | Replicate | 1 | 3 | 1 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 |
| | NODC Code | | | | | | | | | | | | | | | |
| <i>Acteocina canaliculata</i> | 5110040103 | | | | | | | | | | | | | | | |
| <i>Ampelisca abdita</i> | 6169020108 | | | | | | | | | | | | | | | |
| <i>Ampelisca vadorum</i> | 6169020109 | | | | | | | | | | | | | | | |
| <i>Amphiporus angulatus</i> | 4306050101 | | | | | | | | | | | | | | | |
| <i>Amphitrite johnstoni</i> | 5001680104 | | | | | | | | | | | | | | | |
| <i>Anadara transversa</i> | 5506010201 | | | | | | | | | | | | | | | |
| <i>Ancistrosyllis hartmanna</i> | 5001220102 | | | | | | | | | | | | | | | |
| <i>Anomia simplex</i> | 5509090202 | | | | | | | | | | | | | | | |
| <i>Autolytus prolier</i> | 5001230104 | | | | | | | | | | | | | | | |
| <i>Balanus venustus</i> | 6134020121 | | | | | | | | | | | | | | | |
| <i>Bittium alternatum</i> | 5103460105 | | | | | | | | | | | | | | | |
| <i>Bivalvia</i> spp. | 55SPP | | | | | | | | | | | | | | | |
| <i>Buccardiella hamata</i> | 5001432801 | | | | | | | | | | | | | | | |
| <i>Boonea seminuda</i> | 5108011403 | | | | | | | | | | | | | | | |
| <i>Brania clavata</i> | 5001230902 | | | | | | | | | | | | | | | |
| <i>Callinectes sapidus</i> | 6189010301 | | | | | | | | | | | | | | | |
| <i>Capitella capitata complex</i> | 5001600101 | | | | | | | | | | | | | | | |
| <i>Capitella jonesi</i> | 50016001JONE | 19 | 1 | | | | | | | | | | | | | |
| <i>Capitellidae</i> spp. | 500160SPP | | | | | | | | | | | | | | | |
| <i>Cainomella lactea</i> | 4302010201 | | | | | | | | | | | | | | | |
| <i>Cerebratulus lacteus</i> | 4303020209 | | | | | | | | | | | | | | | |
| <i>Cerebratulus</i> spp. | 43030202SPP | | | | | | | | | | | | | | | |
| <i>Cirratulidae</i> spp. | 500150SPP | | | | | | | | | | | | | | | |
| <i>Cirratulus</i> sp. 1 | 50015001SP01 | | | | | | | | | | | | | | | |
| <i>Coryphella pellucida</i> | 5141040108 | | | | | | | | | | | | | | | |
| <i>Crangon septemspinosa</i> | 6179220103 | | | | | | | | | | | | | | | |
| <i>Crepidula convexa</i> | 5103640205 | | | | | | | | | | | | | | | |
| <i>Crepidula formicata</i> | 5103640204 | | | | | | | | | | | | | | | |
| <i>Crepidula plana</i> | 5103640207 | | | | | | | | | | | | | | | |
| <i>Crepidula</i> spp. | 51036402SPP | | | | | | | | | | | | | | | |
| <i>Cymadusa compta</i> | 6169040201 | | | | | | | | | | | | | | | |
| <i>Decapoda</i> spp. | 6175SPP | | | | | | | | | | | | | | | |
| <i>Dipolydora giardi</i> | 5001430401 | | | | | | | | | | | | | | | |
| <i>Dipolydora socialis</i> | 5001430402 | | | | | | | | | | | | | | | |
| <i>Dodecaceria</i> spp. | 50015005SPP | | | | | | | | | | | | | | | |
| <i>Dorvillea (Schiostomeringos) rufolophii</i> | 5001360504 | | | | | | | | | | | | | | | |
| <i>Dilönereis longa</i> | 5001330103 | | | | | | | | | | | | | | | |
| <i>Dyspanopeus sayi</i> | 6189020703 | | | | | | | | | | | | | | | |

| New Bedford Harbor - 1999 | Barcode | 5028015 | 5028017 | 5029015 | 5029016 | 5030015 | 5030017 | 5031016 | 5031017 | 5032015 | 5032017 | 5033015 | 5033017 | 5034015 | 5034016 | 5035015 |
|-------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 2 - All Taxa | Station | 202 | 202 | 204 | 204 | 207 | 207 | 208 | 208 | 211 | 212 | 212 | 216 | 216 | 217 | |
| Taxon | Replicate | 1 | 3 | 1 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 |
| | NODC Code | | | | | | | | | | | | | | | |
| <i>Mercenaria mercenaria</i> | 5515471101 | 5 | 8 | 7 | 24 | 2 | 12 | 25 | 25 | 18 | 2704 | 30 | 14 | 62 | 18 | 12 |
| <i>Microdeutopus grylliotaipa</i> | 6169060401 | | 1 | | | | | 1 | | | | | | | | |
| <i>Microphthalmus aberrans</i> | 5001210202 | | | | | | | | | 1 | | | | | | |
| <i>Microphthalmus szekelkowi</i> | 5001210201 | | | | | | | 1 | | | | | | | | |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | | | | | | | | | | | |
| <i>Mitrella lunata</i> | 5105030207 | | | | | | | | | | | | | | | |
| <i>Monocorophium ascheriusticum</i> | 6169150201 | | | | | | | | | | | | | | | |
| <i>Mulinia lateralis</i> | 5515250301 | | | 1463 | 23 | 257 | 24 | 6 | 74 | 369 | | 1568 | 1180 | 320 | 123 | 1251 |
| <i>Mya arenaria</i> | 55117010201 | 1 | | | 1 | | 1 | 23 | 6 | | 1 | 2 | | 1 | 1 | |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | 1 | | | | 3 | |
| <i>Mysidacea</i> spp. | 61515SPP | | | | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | 1 | 6 | 8 | 10 | | | 2 | 9 | | 1 | 2 | 2 | 2 | 2 | 5 |
| <i>Nereidae</i> spp. | 500124SPP | | | | 2 | | | | | 1 | | | | | | |
| <i>Nolomastus latericeus</i> | 5001600306 | 2 | | | | | | 24 | | | | 1 | | | | |
| <i>Nucula annulata</i> | 5502020205 | | | | | | 1 | | | | | | | | | |
| <i>Nucula</i> spp. | 55020202SPP | | | | | | | | | | | | | | | |
| <i>Odostomia eburnea</i> | 5108010134 | | | | | | | | | | | | | | | |
| <i>Oligochaeta</i> spp. | 5003SPP | 33 | 112 | 87 | 35 | 24 | 50 | 279 | 227 | 60 | 54 | 32 | 53 | 17 | 16 | 22 |
| <i>Oxyurostylis smithi</i> | 6154050801 | | | | | | | 1 | | | | | | | | |
| <i>Pagurus annulipes</i> | 6183060227 | | | | | | | 1 | | | | | | | | |
| <i>Pagurus</i> spp. | 61830602SPP | | | | | | | | | | | | | | | |
| <i>Palaemonetes vulgaris</i> | 6179110304 | | | | | | | | | 1 | | | | | | |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | 2 | 3 | | | | | | | | | | |
| <i>Paranaitis speciosa</i> | 5001130801 | | | | | | | | | | | | | | | |
| <i>Pectinaria goldii</i> | 5001660302 | 1 | | 9 | 11 | 3 | | 2 | 4 | 11 | 6 | 6 | 17 | 27 | 1 | |
| <i>Petricola pholadiformis</i> | 5515480102 | | | | 2 | | 1 | | 1 | | | | 2 | | | |
| <i>Phyllodoce arenae</i> | 5001131410 | | | | | | | 1 | 1 | | | | | | | |
| <i>Phyllodocidae</i> spp. | 500113SPP | | | | | | | | | | | | | 3 | | |
| <i>Pinnixa sayana</i> | 6189060409 | | | | | | | | | | | | | | | |
| <i>Pinnixa</i> spp. | 61800604SPP | | | | | | | | | | | | | | 1 | |
| <i>Pista</i> spp. | 50016807SPP | | | | | | | | | | | | | | | |
| <i>Pitar morrhuanus</i> | 5515471201 | | | | | | | | | | | | | | | |
| <i>Platyneris dumetillii</i> | 5001240503 | | | | | | | | | | | | | | | |
| <i>Podaeris obscura</i> | 5001211502 | | | 4 | 4 | 1 | | | | 2 | 2 | | | | | |
| <i>Polycirrus eximius</i> | 5001680804 | | | | | | | | | | | | | | | |
| <i>Polycirrus</i> spp. | 50016808SPP | | | | | | | | | | | | | | | |
| <i>Polydora cornuta</i> | 5001430448 | 13 | 18 | 29 | 34 | 12 | | 35 | 99 | | 15 | 1 | 2 | 3 | 1 | 1 |
| <i>Polydora neocaeaca</i> | 50014304NEOC | | | | | | | | | 1 | | | | | | |

| Taxon | Barcode | 5028015 | 5028017 | 5029015 | 5029016 | 5030015 | 5030017 | 5031016 | 5031017 | 5032015 | 5032017 | 5033015 | 5033017 | 5034015 | 5034016 | 5035015 |
|--------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Station | | 202 | 202 | 204 | 204 | 207 | 207 | 208 | 208 | 211 | 211 | 212 | 212 | 216 | 216 | 217 |
| Replicate | 1 | 3 | 1 | 2 | 1 | 3 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | |
| NODC Code | | | | | | | | | | | | | | | | |
| Polydora spp. | 50014304SPP | | | | | | | | | | | | | | | |
| Polygordius sp. A | 50020501SP01 | | | | | | | | | | | | | | | |
| Polyonyx gibbesi | 6183120401 | | | | | | | | | | | | | | | |
| Porcellanidae spp. | 618312SPP | | | | | | | | | | | | | | | |
| Prionospio (Minuspio) perkinsi | 5001430517 | | | 1 | | | | | | | | | | | | |
| Prionospio heterobranchia | 5001430503 | | | 1 | | | | | | | | | | | | |
| Rictaxis punctostriatus | 5110010403 | | | | | | | | | | | | | | | |
| Sabellaria vulgaris | 5001650202 | | | 1 | | | | | | | | | | | | |
| Scolelepis bousfieldi | 5001432002 | | | | | | | | | | | | | | | |
| Scolelepis texana | 5001432006 | | | | | | | | | | | | | | | |
| Scoletoma tenuis | 50013101TENU | | | | | | | | | | | | | | | |
| Seila adamsi | 5103460401 | | | | | | | | | | | | | | | |
| Solemya velum | 5504010101 | | | | | | | | | | | | | | | |
| Spio setosa | 5001430704 | | | | | | | | | | | | | | | |
| Stenothoidae spp. | 616948SPP | | | | | | | | | | | | | | | |
| Sthenelais boa | 5001060302 | | | | | | | | | | | | | | | |
| Streblospio benedicti | 5001431801 | 154 | 103 | 125 | 203 | 382 | 259 | 1077 | 880 | 126 | 155 | 358 | 234 | 35 | 105 | 245 |
| Tellina agilis | 5515310205 | 2 | 1 | 6 | 1 | 3 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 8 | 9 | 1 |
| Tharyx acutus | 5001500305 | 120 | 23 | 555 | 147 | 22 | 41 | 144 | 60 | 25 | 29 | 23 | 47 | 84 | 736 | 14 |
| Thyasira goldii | 5515020301 | | | | | | | | | | | | | | | |
| Turbonilla aequalis | 5108010224 | | | | | | | | | | | | | | | |
| Turbonilla spp. | 51080102SPP | | | | | | | | | | | | | | | |
| Upogebia affinis | 6183170102 | | | | | | | | | | | | | | | |
| Xanthidae spp. | 618902SPP | | | | | | | | | | | | | | | |
| Grand Total | | 425 | 338 | 2448 | 659 | 909 | 676 | 1860 | 1701 | 663 | 3114 | 2221 | 1730 | 621 | 1096 | 1771 |

| New Bedford Harbor - 1999 | Barcode | 5035017 | 5036015 | 5036017 | 5037015 | 5037016 | 5038015 | 5038017 | 5039015 | 5039017 | 5040015 | 5040017 | 5041015 | 5041017 | 5042015 | 5042017 |
|---|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 2 - All Taxa | Station | 217 | 218 | 218 | 220 | 220 | 221 | 221 | 222 | 222 | 224 | 224 | 225 | 225 | 226 | 226 |
| Taxon | Replicate | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | |
| <i>Acteocina canaliculata</i> | 5110040103 | | | | | | | | | | | | | | | |
| <i>Ampelisca abdita</i> | 6169020108 | | | | | | | | | | | | | | | |
| <i>Ampelisca vaclorum</i> | 6169020109 | | | | | | | | | | | | | | | |
| <i>Amphiporus angulatus</i> | 4306050101 | | | | | | | | | | | | | | | 2 |
| <i>Amphitrite johnstoni</i> | 5001680104 | | | | | | | | | | | | | | | |
| <i>Anadara transversa</i> | 5506010201 | | | | | | | | | | | | | | | |
| <i>Ancistrosyllis hartmanna</i> | 5001220102 | | | | | | | | | | | | | | | |
| <i>Anomia simplex</i> | 5509090202 | | | | | | | | | | | | | | | 1 |
| <i>Autolytus prolier</i> | 5001230104 | | | | | | | | | | | | | | | |
| <i>Balanus venustus</i> | 6134020121 | | | | | | | | | | | | | | | |
| <i>Bitium alternatum</i> | 5103460105 | | | | | | | | | | | | | | | |
| <i>Bivalvia</i> spp. | 55SPP | | | | | | | | | | | | | | 1 | 1 |
| <i>Buccardiella hamata</i> | 5001432801 | | | | | | | | | | | | | | | |
| <i>Boonea seminuda</i> | 5108011403 | | | | | | | | | | | | | | | |
| <i>Brania clavata</i> | 5001230902 | | | | | | | | | | | | | | | |
| <i>Callinectes sapidus</i> | 61189010301 | | | | | | | | | | | | | | 1 | |
| <i>Capitella capitata complex</i> | 5001600101 | | | | | | | | | | | | | | 3 | |
| <i>Capitella jonesi</i> | 50016001JONE | | | | | | | | | | | | | | 1 | |
| <i>Capitellidae</i> spp. | 500160SPP | | | | | | | | | | | | | | 2 | |
| <i>Carinomella lactea</i> | 4302010201 | | | | | | | | | | | | | | 1 | |
| <i>Cerebratulus lacteus</i> | 4303020209 | | | | | | | | | | | | | | | |
| <i>Cerebratulus</i> spp. | 43030202SPP | | | | | | | | | | | | | | | |
| <i>Cirratulidae</i> spp. | 500150SPP | | | | | | | | | | | | | | 2 | |
| <i>Cirratulus</i> sp. 1 | 50015001SP01 | | | | | | | | | | | | | | 3 | |
| <i>Corynephella pellucida</i> | 5141040108 | | | | | | | | | | | | | | | |
| <i>Crangon septemspinosa</i> | 61179220103 | | | | | | | | | | | | | | | |
| <i>Crepidula convexa</i> | 5103640205 | | | | | | | | | | | | | | | |
| <i>Crepidula fornicate</i> | 5103640204 | | | | | | | | | | | | | | 1 | |
| <i>Crepidula plana</i> | 5103640207 | | | | | | | | | | | | | | 2 | |
| <i>Crepidula</i> spp. | 51036402SPP | | | | | | | | | | | | | | 2 | |
| <i>Cymadusa compta</i> | 6169040201 | | | | | | | | | | | | | | | |
| <i>Decapoda</i> spp. | 6175SPP | | | | | | | | | | | | | | 1 | |
| <i>Dipolydora giardi</i> | 5001430401 | | | | | | | | | | | | | | | |
| <i>Dipolydora socialis</i> | 5001430402 | | | | | | | | | | | | | | | |
| <i>Dodecaceria</i> spp. | 50015005SPP | | | | | | | | | | | | | | | |
| <i>Dowvillea (Schistomerungos) rudolphi</i> | 5001360504 | | | | | | | | | | | | | | | |
| <i>Drilonereis longa</i> | 5001330103 | | | | | | | | | | | | | | | |
| <i>Dyspanopeus sayi</i> | 6189020703 | | | | | | | | | | | | | | | |

| Taxon | Barcode | 5035017 | 5036016 | 5036017 | 5037015 | 5037016 | 5038015 | 5038017 | 5039015 | 5039017 | 5040015 | 5040017 | 5041015 | 5041017 | 5042015 | 5042017 |
|------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Station | 217 | 218 | 218 | 220 | 220 | 221 | 221 | 222 | 222 | 224 | 224 | 225 | 225 | 226 | 226 |
| | Replicate | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | |
| <i>Mercenaria mercenaria</i> | 5515471101 | 4 | 3 | | 44 | 7 | | | | 6 | 7 | 1 | 4 | 74 | 153 | |
| <i>Microdeutopus grylliota</i> | 6169060401 | | | | | | | | | | | | | | | |
| <i>Microphthalmus aberrans</i> | 5001210202 | | | | | | | | | | | | | | | |
| <i>Microphthalmus szekluki</i> | 5001210201 | | | | | | | | | | | | | | | |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | | | | | | | | | | | |
| <i>Mitella lunata</i> | 5105030207 | | | | 1 | | | | | | | | | | | |
| <i>Monocorophium ascheriusicum</i> | 6169150201 | | | | | | | | | | | | | | | |
| <i>Mulinia lateralis</i> | 5515250301 | 598 | 3 | 1 | 854 | 168 | | | 11 | 15 | 406 | 762 | 339 | 382 | 29 | |
| <i>Mya arenaria</i> | 5517010201 | | 6 | | | | | | | | | | | | | |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | |
| <i>Mysidacea</i> spp. | 6151SPP | | | 1 | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | 7 | 5 | 7 | 1 | | | | 1 | 6 | 4 | 2 | | 1 | 3 | 2 |
| <i>Nereidae</i> spp. | 500124SPP | | | | | | | | | | | | | | | |
| <i>Notomastus latericeus</i> | 5001600306 | | | | | | | | 1 | | | | | | 1 | |
| <i>Nucula annulata</i> | 5502020205 | | | | | | | | | | | | | | | |
| <i>Nucula</i> spp. | 55020202SPP | | | | | | | | | | | | | | | |
| <i>Odostomia eburnea</i> | 5108010134 | | | | | | | | | | | | | | | |
| <i>Oligochaeta</i> spp. | 5003SPP | 14 | 251 | 288 | 13 | 3 | 4 | 7 | 36 | 40 | 12 | 1 | 13 | 11 | | |
| <i>Oxyurostylis smithi</i> | 6154050801 | | | | | | | | | | | | | | | |
| <i>Pagurus annulipes</i> | 6183060227 | | | | | | | | | | | | | | | |
| <i>Pagurus</i> spp. | 61830602SPP | | | | | | | | | | | | | | | |
| <i>Palaemonetes vulgaris</i> | 6179110304 | | | | | | | | | | | | | | | |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | | | | | | | | | | | | |
| <i>Paranaitis speciosa</i> | 5001130801 | | | | | | | | | | | | | | | |
| <i>Pectinaria gouldii</i> | 5001666302 | 1 | | | 172 | 60 | | | 4 | 4 | 51 | 67 | 100 | 63 | 70 | 2 |
| <i>Petricola pholadiformis</i> | 5515480102 | 1 | | | | | 1 | | | | | | 4 | 2 | | |
| <i>Phyllocoete arenae</i> | 5001131410 | | 2 | | 2 | | | | | | | 1 | | | | |
| <i>Phyllodocidae</i> spp. | 500113SPP | | | | | | | | | | | | | | | |
| <i>Pinnixa sayana</i> | 6189060409 | | | | | | | | | | | | 2 | | | |
| <i>Pinnixa</i> spp. | 61890604SPP | | | | | | | | | | | | 1 | 1 | | |
| <i>Pista</i> spp. | 50016807SPP | | | | | | | | | | | | | | | |
| <i>Pitar morrhuanus</i> | 5515471201 | | | | | | | 1 | | | | | | | | |
| <i>Platynereis dumerilii</i> | 5001240503 | | | | | | | | | | | | | | | |
| <i>Podarke obscura</i> | 5001211502 | | | | | | | | | | | | 2 | 6 | 15 | 2 |
| <i>Polycirrus eximus</i> | 5001680804 | | | | | | | | | | | | | | | |
| <i>Polycirrus</i> spp. | 50016808SPP | | | | | | | | | | | | | | | |
| <i>Polydora cornuta</i> | 5001430448 | | 47 | 4 | | 1 | 1 | 1 | 9 | 18 | 1 | | | 3 | 4 | 1 |
| <i>Polydora neocaeaca</i> | 50014304NEOC | | | | | | | | | | | | | | | |

| Taxon | Barcode | 50356017 | 5036015 | 5036017 | 5037015 | 5037016 | 5038015 | 5038017 | 5039015 | 5039017 | 5040015 | 5040017 | 5041015 | 5041017 | 5042015 | 5042017 |
|--------------------------------|--------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 2 - All Taxa | Station | 217 | 218 | 218 | 220 | 220 | 221 | 221 | 222 | 222 | 224 | 224 | 225 | 225 | 226 | 226 |
| | Replicate | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | |
| Polydora spp. | 50014304SPP | | | | | | | | | | | | | | | |
| Polygordius sp. A | 50020501SP01 | 1 | | | | | | | | | | | | | | |
| Polyonyx gibbesi | 6183120401 | | | | | | | | | | | | | | | |
| Porcellanidae spp. | 618312SPP | | | | | | | | | | | | | | | |
| Prionospio (Minuspio) perkinsi | 5001430517 | | | | 10 | 3 | 8 | | | 2 | | 1 | 1 | 19 | 6 | 4 |
| Prionospio heterobranchia | 5001430503 | | | | 9 | | | | | | 4 | | | | | |
| Rictaxis punctostriatus | 5110010403 | | | | | 4 | 1 | | | | | 2 | 3 | 4 | | 14 |
| Sabellaria vulgaris | 5001650202 | | | | | | | | | | | | | | | |
| Scotelepis bousfieldi | 5001432002 | | | | | | | | | | | | | | | |
| Scotelepis texana | 5001432006 | | | | 7 | | | | | | | | | | | |
| Scoletomma tenuis | 50013101TENU | | | | | | | | | | | | | | | |
| Selia adamsi | 5103460401 | | | | | | | | | | | | | | | |
| Solemya velum | 5504010101 | | | | | | | | | | | | | | | |
| Spiro setosa | 5001430704 | | | | 13 | | | | | | | | | | | |
| Stenothoidae spp. | 616948SPP | | | | | | | | | | | | | | | |
| Sthenelais boea | 5001060302 | | | | | | | | | | | | | | | |
| Streblospio benedicti | 5001431801 | 169 | 928 | 223 | 79 | 50 | 5 | 7 | 69 | 53 | 52 | 100 | 137 | 141 | 31 | 11 |
| Tellina agilis | 5515310205 | 1 | | | 23 | 4 | 1 | | 1 | | 3 | 2 | 7 | 15 | 1 | |
| Tharyx acutus | 5001500305 | 7 | 36 | 15 | 68 | 15 | | 2 | 69 | 54 | | 7 | 6 | 83 | 5 | |
| Thyasira gouldii | 5515020301 | | | | | | | | | | | | | 1 | | |
| Turbonilla aequalis | 5108010224 | | | | | | | | | | | | | | | |
| Turbonilla spp. | 51080102SPP | | | | | | | | | | | | | | | |
| Upogebia affinis | 6183170102 | | | | | | | | | | | | | | | |
| Xanthidae spp. | 618902SPP | | | | | | | | | | | | | | | |
| Grand Total | 941 | 1416 | 621 | 1382 | 436 | 16 | 26 | 312 | 298 | 608 | 1035 | 802 | 932 | 257 | 42 | |

| Taxon | Barcode | 5043015 | 5043017 | 5044015 | 5044017 | 5045015 | 5045017 | 5046015 | 5046017 | 5047015 | 5047017 | 5048016 | 5048017 | 5049015 | 5049016 | 5049017 | 5050015 |
|------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Station | 227 | 227 | 230 | 230 | 231 | 231 | 235 | 235 | 236 | 236 | 237 | 237 | 240 | 240 | 241 | |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | |
| | NODC Code | | | | | | | | | | | | | | | | |
| <i>Meicenaria mercenaria</i> | 5515471101 | 3 | 6 | 227 | 19 | 106 | 8 | 1 | | 5 | 71 | 7 | | 1 | 1 | 1 | 3 |
| <i>Microdeutopus grylliotaipa</i> | 6169060401 | | | | | | | | | | | | | | | | |
| <i>Microphthalmus aberrans</i> | 5001210202 | | | | | | | | | | | | | | | | |
| <i>Microphthalmus sczelkowii</i> | 5001210201 | | | | | | | | | | | | | | | | |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | 1 | | | | | | | | | | | 1 |
| <i>Mittella lunata</i> | 5105030207 | | | | | 1 | | | | | | | | | | | 1 |
| <i>Monocorophium ascheriusicum</i> | 6169150201 | | | | | | | | | | | | | | | | |
| <i>Mulinia lateralis</i> | 5515260301 | 261 | 190 | 3018 | 204 | 742 | 832 | 196 | 137 | 262 | 730 | | 4 | 761 | 2265 | 59 | |
| <i>Mya arenaria</i> | 5517010201 | | | | | | | | | | | | | | | | |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | | |
| <i>Mysidacea</i> spp. | 6151SPP | | | | | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | 1 | 8 | | | 1 | 1 | 3 | 8 | 5 | 5 | 1 | | | | | 2 |
| <i>Nereidae</i> spp. | 500124SPP | | | | | | | | | | | | | | | | |
| <i>Notomastus latericeus</i> | 5001600306 | | | | | | | | | | | | | | | | 3 |
| <i>Nucula annulata</i> | 5502020205 | | | | | | | | | | | | 1 | 11 | | | |
| <i>Nucula</i> spp. | 55020202SPP | 1 | | | | | 4 | | | | | | | | | | |
| <i>Odostomia eburnea</i> | 5108010134 | | | | | 1 | | | | | | | | | | | |
| <i>Oligochaeta</i> spp. | 5003SPP | | 8 | 7 | 6 | 28 | 3 | 4 | 6 | 6 | 6 | 12 | 28 | 71 | 3 | | |
| <i>Oxyurostylis smithi</i> | 6154050801 | | | | | 1 | | | | | | | | 1 | | | |
| <i>Pagurus annulipes</i> | 6183060227 | | | | | | | | | | | | | | | | |
| <i>Pagurus</i> spp. | 61830602SPP | 1 | | | | | | | | | | | | | | | 8 |
| <i>Palaemonetes vulgaris</i> | 6179110304 | | | | | | | | | | | | | | | | |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | | | | | | | | | | | | | |
| <i>Paranaitis speciosa</i> | 5001130801 | | | | | | | | | | | | | | | | |
| <i>Pectinaria Gouldii</i> | 5001660302 | 11 | 3 | 161 | 74 | 60 | 24 | 82 | 48 | 92 | 6 | 6 | 27 | 24 | 55 | | |
| <i>Patricola pholidiformis</i> | 5515480102 | 1 | | | | | | | | | | 1 | 2 | | 3 | | |
| <i>Phyllodoce arenae</i> | 5001131410 | | | | | 1 | | | | | | 1 | 1 | 1 | 1 | 1 | 1 |
| <i>Phyllodocidae</i> spp. | 5001113SPP | | | | | | | | | | | | | | | | |
| <i>Pinnixa sayana</i> | 6189060409 | | 3 | 4 | | | | | | | | 2 | | 2 | | | |
| <i>Pinnixa</i> spp. | 61800604SPP | | 5 | 5 | | | | | | | | 1 | 1 | 5 | 1 | | |
| <i>Pista</i> spp. | 50016607SPP | | | | | | | | | | | | | | | | |
| <i>Pilar morrhuanus</i> | 5515471201 | | | | | | | | | | | | 1 | 1 | | | |
| <i>Playnerellus dumetillii</i> | 5001240503 | | | | | | | | | | | | | | | | |
| <i>Podarke obscura</i> | 5001211502 | | | | | | | | | | | | 1 | 1 | | | |
| <i>Polycirrus eximus</i> | 5001660804 | | | | | | | | | | | | | 1 | 1 | | |
| <i>Polycirrus</i> spp. | 50016608SPP | | | | | | | | | | | | | | | | |
| <i>Polydora cornuta</i> | 5001430448 | 21 | 55 | 1 | | | | | | | | 1 | 4 | 2 | 56 | 4 | |
| <i>Polydora neocaeaca</i> | 50014304NEOC | | | | | | | | | | | | | | 9 | | |

| | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| New Bedford Harbor - 1999 | Barcode | 5043015 | 5043017 | 5044015 | 5044017 | 5045015 | 5045017 | 5046015 | 5046017 | 5047015 | 5047017 | 5048015 | 5048016 | 5048015 | 5049015 | 5049017 | 5050015 |
| Area 2 - All Taxa | Station | 227 | 227 | 230 | 230 | 231 | 231 | 235 | 235 | 236 | 236 | 237 | 237 | 240 | 240 | 241 | |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | |
| Taxon | NODC Code | | | | | | | | | | | | | | | | |
| Polydora spp. | 50014304SPP | | | | | | | | | | | | | | | | |
| Polygordius sp. A | 50020501SP01 | | | | | | | | | | | | | | | | |
| Polyonyx gibbesi | 6183120401 | | | | | | | | | | | | | | | | |
| Porcellanidae spp. | 618312SPP | | | | | | | | | | | | | | | | |
| Prionospio (Minuspio) perkinsi | 5001430517 | 4 | | 7 | 6 | 15 | 3 | | 4 | 25 | 28 | 8 | 31 | 4 | 5 | 5 | 23 |
| Prionospio heterobranchia | 5001430503 | | 8 | | | 10 | | | | 1 | | 21 | | | | | |
| Rictaxis punctostriatus | 5110010403 | 1 | | 47 | 5 | 29 | 14 | 16 | 5 | 17 | 24 | | | 6 | 11 | 2 | |
| Sabellaria vulgaris | 5001650202 | | | | | | | | | | | | | | | | |
| Scolelepis bousfieldi | 5001432002 | | | | | | | | | | | | | | | | |
| Scolelepis texana | 5001432006 | | | | | | | | | | | | | | | | |
| Scoleloma tenuis | 50013101TENU | | | | | | | | | | | | | | | | |
| Seilia adamsi | 5103460401 | | | | | | | | | | | | | | | | |
| Solemya velum | 5504010101 | | | | | | | | | | | | | 1 | | | |
| Spio setosa | 5001430704 | | | | | | | | | | | | | | | | |
| Stenothoidae spp. | 616948SPP | | | | | | | | | | | | | | | | |
| Sthenelais boa | 5001060302 | | | | | | | | | | | | | | | | |
| Streblospio benedicti | 5001431801 | 80 | 221 | 34 | 166 | 155 | 4 | 6 | 2 | 55 | 90 | 105 | 4 | 20 | 4 | 20 | 30 |
| Tellina agilis | 5515310205 | 2 | 3 | 26 | 10 | 35 | 5 | 8 | 4 | 9 | 27 | 6 | 9 | 9 | 6 | | |
| Tharyx acutus | 5001500305 | 1 | 1 | 81 | 71 | 18 | 3 | 3 | 3 | 6 | 498 | 928 | 8 | 2 | 2 | 14 | |
| Thyasira gouldii | 5515020301 | 1 | | | | | | | | 1 | | 1 | | | | | |
| Turbonilla aequalis | 5108010224 | | | | | | | | | | | | | | | | |
| Turbonilla spp. | 51080102SPP | | | | | | | | | | | | | | | | |
| Upogebia affinis | 6183170102 | | | | | | | | | | | | 1 | 1 | | | |
| Xanthidae spp. | 618902SPP | | | | | | | | | | | | | | | | |
| Grand Total | | 548 | 600 | 3984 | 719 | 1480 | 1024 | 319 | 392 | 543 | 1495 | 785 | 1528 | 910 | 2502 | 388 | |

| New Bedford Harbor - 1999 | | Barcode | 50550017 | 5051015 | 5051017 | 5052016 | 5052017 | 5054015 | 5054017 | 5055015 | 5055017 | 5056015 | 5056017 | 5057015 | 5057017 |
|---------------------------------------|--|--------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 2 - All Taxa | | Station | 241 | 242 | 242 | 245 | 245 | 247 | 247 | 249 | 249 | 250 | 250 | 253 | 253 |
| Taxon | | NODC Code | | | | | | | | | | | | | Total |
| Acteocina canaliculata | | 5110040103 | 1 | 1 | 2 | | | | | | | | | | 68 |
| Ampelisca abdita | | 6169020108 | | | | | | | | | | | | | 3 |
| Ampelisca vadorum | | 6169020109 | 1 | | | | | | | | | | | | 2 |
| Amphiporus angulatus | | 4306050101 | | | | | | | | | | | | | 30 |
| Amphitrite johnstoni | | 5001680104 | | | | | | | | | | | | | 4 |
| Anadara transversa | | 5506010201 | 1 | | | | | | | | | | | | 1 |
| Ancistrosyllis hartmanna | | 5001220102 | | | | | | | | | | | | | 1 |
| Anomia simplex | | 5509090202 | 2 | 2 | | | | | | | | | | | 2 |
| Autolytus prolifer | | 5001230104 | | | | | | | | | | | | | 2 |
| Balanus venustus | | 6134020121 | 3 | | | | | | | | | | | | 21 |
| Bittium alternatum | | 5103460105 | 1 | | | | | | | | | | | | 1 |
| Bivalvia spp. | | 56SPP | 1 | | | | | | | | | | | | 5 |
| Boccardiella hamata | | 5001432801 | 2 | 4 | | | | | | | | | | | 18 |
| Boonea seminudata | | 5108011403 | 6 | 26 | 40 | | 7 | | | | 1 | 156 | | | 269 |
| Brania clavata | | 5001230902 | | | | | | | | | 1 | | | | 2 |
| Callinectes sapidus | | 6189010301 | | | | | | | | | | | | | 5 |
| Capitella capitata complex | | 5001600101 | | | | 2 | 226 | 106 | 28 | 1 | | 5 | | | 518 |
| Capitella jonesi | | 50016001JONE | 1 | | | | 5 | 11 | 5 | 2 | 1 | | | | 109 |
| Capitellidae spp. | | 500160SPP | | | | | | | | | | | | | 4 |
| Carinomella lactea | | 4302010201 | | | | | | | | | | | | | 5 |
| Cerberatulus lacteus | | 4303020209 | | | | | | | | | | | | | 1 |
| Cerberatulus spp. | | 43030202SPP | | | | | | | | | | | | | 1 |
| Cirratulidae spp. | | 500150SPP | | | | | | | | | | | | | 149 |
| Cirratulus sp. 1 | | 50015001SP01 | | | | | | | | | | | | | 4 |
| Coryphella pellucida | | 5141040108 | | | | | | | | | | | | | 1 |
| Crangon septemspinosa | | 6179220103 | | | | | | | | | | | | | 5 |
| Crepidula convexa | | 5103640205 | | | | | | | | | | | | | 22 |
| Crepidula fornicate | | 5103640204 | 2 | 36 | 7 | | 72 | | | 12 | | 117 | 126 | | 440 |
| Crepidula plana | | 5103640207 | 3 | 2 | 1 | | 10 | | | 2 | | 10 | 6 | | 46 |
| Crepidula spp. | | 51036402SPP | 2 | 10 | 13 | | | | | | | 4 | | | 56 |
| Cymadusa compia | | 6169040201 | | | | | | | | | | | | | 1 |
| Decapoda spp. | | 6175SPP | | | | | | | | | | | | | 3 |
| Dipolydora giardi | | 5001430401 | | | | | | | | | | | | | 4 |
| Dipolydora socialis | | 5001430402 | | | | | | | | | | | | | 4 |
| Dodecaceria spp. | | 50015005SPP | | | | | | | | | | | | | 59 |
| Dorvillea (Schistomerengos) rudolphii | | 5001360504 | | | | | | | | | | | | | 1 |
| Drilonereis longa | | 5001330103 | 2 | 1 | 7 | | | | | | | | | | 2 |
| Dyspanopeus sayi | | 6189020703 | | | | | | | | | | 4 | 4 | | 43 |

| New Bedford Harbor - 1999 | | Barcode | 5050017 | 5051015 | 5051017 | 5052016 | 5052017 | 5054015 | 5054017 | 5055015 | 5055017 | 5056015 | 5056017 | 5057015 | 5057017 |
|------------------------------------|-------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 2 - All Taxa | | Station | 241 | 242 | 245 | 245 | 247 | 247 | 249 | 249 | 250 | 250 | 253 | 253 | |
| Taxon | NODC Code | Replicate | 3 | 1 | 3 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| <i>Mercenaria mercenaria</i> | 5515471101 | 7 | 15 | 29 | 21 | 1 | 6 | 12 | 8 | 1 | 1 | 1 | 1 | 2 | 3823 |
| <i>Microdeutopus gyllotulpa</i> | 6169060401 | | | | | | | | | | | | | | 8 |
| <i>Microphthalmus aberrans</i> | 5001210202 | | | | | | | | | | | | | | 1 |
| <i>Microphthalmus sczelkowi</i> | 5001210201 | | | | | | | | | | | | | | 1 |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | 1 | | | | | | | | | 3 |
| <i>Mitrella lunata</i> | 5105030207 | 6 | | 1 | | | | | | | | | | | 10 |
| <i>Monocorophium ascheriusicum</i> | 6169150201 | | | | | | | 6 | | | | | | | 7 |
| <i>Mulinia lateralis</i> | 5515250301 | 13 | 109 | 1330 | 6 | 19 | 8 | 2 | | | | | | | 21374 |
| <i>Mya arenaria</i> | 5517010201 | | | | | | | 1 | | | | | | | 43 |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | 4 |
| <i>Mysidacea spp.</i> | 6151SPP | | | | | | | | | | | | | | 1 |
| <i>Neanthes succinea</i> | 5001240309 | 1 | | | 2 | 21 | 2 | 7 | 6 | | 5 | | | | 166 |
| <i>Nereidae spp.</i> | 500124SPP | | | | | | | | | | | | | | 3 |
| <i>Notomastus latericeus</i> | 5001600306 | 5 | | | | | | | | | 2 | | | | 58 |
| <i>Nucula annulata</i> | 5502020205 | 1 | | | | | | | | 1 | | | | | 15 |
| <i>Nucula spp.</i> | 55020202SPP | | | | | | | | | | | | | | 5 |
| <i>Oiodistomia eburnea</i> | 5108010134 | | | | | | | | | | | | | | 1 |
| <i>Oligochaeta spp.</i> | 5003SPP | 12 | 53 | 18 | 65 | 8 | 20 | 49 | 3 | 5 | 57 | 10 | 2 | | 2278 |
| <i>Oxyurostylis smithi</i> | 6154050801 | | | | | | | | | | | | | | 3 |
| <i>Pagurus annulipes</i> | 6183060227 | 2 | | | | | | | | | | | | | 2 |
| <i>Pagurus spp.</i> | 61830602SPP | 1 | | | | | | | | | | | | | 11 |
| <i>Palaeomonetes vulgaris</i> | 6179110304 | | | | | | | | | 1 | | | | | 2 |
| <i>Paracaprella tenuis</i> | 6189020801 | | | | | | | | | | | | | | 5 |
| <i>Paranatis speciosa</i> | 5001130801 | 1 | | | | | | | | | | | | | 1 |
| <i>Pectinaria gouldii</i> | 5001660302 | 61 | 31 | 23 | 1 | 2 | | | | | 1 | | | | 1544 |
| <i>Petricola pholadiformis</i> | 5515480102 | 1 | | | | | | | | | | | | | 21 |
| <i>Phyllocoete arenae</i> | 5001131410 | 1 | | 3 | | | | | 1 | | | | | | 16 |
| <i>Phylodocidae spp.</i> | 500113SPP | 2 | | | | | | | | | | | | | 2 |
| <i>Pinnixa sayana</i> | 6169060409 | | | | | | | | | | | | | | 13 |
| <i>Pinnixa spp.</i> | 61800604SPP | | | | | | 1 | | | | | | | | 22 |
| <i>Pista spp.</i> | 50016807SPP | | | | | | | | | | 1 | | | | 1 |
| <i>Pitar morrhuanus</i> | 5515471201 | 2 | | | | | | | | | | | | | 6 |
| <i>Platynereis dumerilii</i> | 5001240503 | | | | | | 4 | | | | | 1 | | | 5 |
| <i>Podarke obscura</i> | 5001211502 | 2 | 1 | 3 | | | | | 1 | | 2 | 7 | | | 76 |
| <i>Polycirrus eximius</i> | 5001680804 | 1 | | | | | | | | | | | | | 3 |
| <i>Polycirrus spp.</i> | 50016808SPP | | | | | | | | | | 2 | | | | 2 |
| <i>Polydora cornuta</i> | 5001430448 | 2 | 7 | 1 | 9 | 11 | 20 | 7 | 28 | 4 | 15 | 27 | 1 | | 630 |
| <i>Polydora neocaea</i> | 5001430NEOC | | | | 3 | | | | | | | 1 | | | 14 |

| Taxon | Barcode | 50500117 | 5051015 | 5051017 | 5052016 | 5052017 | 5054015 | 5055015 | 5055017 | 5056015 | 5056017 | 5057015 | 5057017 |
|--------------------------------|--------------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Station | 241 | 242 | 242 | 245 | 245 | 247 | 247 | 249 | 249 | 250 | 250 | 253 |
| | Replicate | 3 | 1 | 3 | 2 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 3 |
| | NODC Code | | | | | | | | | | | | Total |
| Polyclora spp. | 50014304SPP | | | | | | | | | | | | 2 |
| Polygordius sp. A | 50020501SP01 | | | | | | | | | | | | 4 |
| Polyonyx gibbesi | 6183120401 | | | | | | | | | | | | 2 |
| Porcellanidae spp. | 618312SPP | | | | | | | | | | | | 1 |
| Prionospio (Minuspio) perkinsi | 5001430517 | 25 | 35 | 4 | 13 | | | | | | | | 296 |
| Prionospio heterobranchia | 5001430503 | 16 | 30 | 24 | 12 | 1 | | | | | | | 238 |
| Rictaxis punctostriatus | 5110010403 | 8 | 1 | 7 | 4 | | | | | | | | 240 |
| Sabellaria vulgaris | 5001650202 | | | | | | | | | | | | 1 |
| Scolelepis boutfieldi | 5001432002 | | | | | | | | | | | | 1 |
| Scolelepis texana | 5001432006 | | | | | | | | | | | | 8 |
| Scolelotoma tenuis | 50013101TENU | | | | | | | | | | | | 1 |
| Seila adamsi | 5103460401 | | | | | | | | | | | | 2 |
| Solenmya velum | 5504010101 | | | | | | | | | | | | 1 |
| Spio setosa | 5001430704 | | | | | | | | | | | | 25 |
| Stenothoidae spp. | 616948SPP | | | | | | | | | | | | 3 |
| Sthenelais boa | 5001060302 | | | | | | | | | | | | 1 |
| Streblospio benedicti | 5001431801 | 53 | 100 | 155 | 45 | 17 | 2 | 4 | 78 | 7 | 3 | | 7932 |
| Tellina agilis | 5515310205 | 6 | 35 | 23 | 2 | | | | 5 | | 1 | | 334 |
| Tharyx acutus | 5001500305 | 58 | 74 | 92 | 654 | 42 | | 1 | 2 | 4 | 1 | | 4999 |
| Thyasira gouldii | 5515020301 | | | | | | | | | | | | 18 |
| Turbonilla aequalis | 5108010224 | | | | | | | | | | | | 2 |
| Turbonilla spp. | 51080102SPP | | | | | | | | | | | | 1 |
| Upogebia affinis | 6183170102 | | | | | | | | | | | | 2 |
| Xanthidae spp. | 618802SPP | 1 | | | | | | | | | | | 2 |
| Grand Total | 439 | 1212 | 2189 | 1336 | 290 | 377 | 285 | 320 | 51 | 342 | 406 | 11 | 21 |

| New Bedford Harbor - 1999 | Barcode | 5058015 | 5058017 | 5060015 | 5060017 | 5061015 | 5061017 | 5062015 | 5062017 | 5063015 | 5063016 | 5064015 | 5064017 | 5065015 | 5065017 | 5066015 | 5066017 |
|----------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 304 | 304 | 306 | 306 | 309 | 309 | 310 | 310 | 311 | 311 | 317 | 317 | 318 | 318 | 323 | 323 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | | |
| <i>Acteocina canaliculata</i> | 5110040103 | | | | | | | | | | | | | | | | |
| <i>Actinaria spp.</i> | 3758SPP | | | | | | | | | | | | | | | | |
| <i>Actinothoe sp. 1</i> | 37600502SP01 | | | | | | | | | | | | | | | | |
| <i>Ameroculodes sp. 1</i> | 61693708SP01 | | | | | | | | | | | | | | | | |
| <i>Ampelisca abdita</i> | 6169020108 | | | | | | | | | | | | | | | | 2 |
| <i>Ampelisca macrocephala</i> | 6169020101 | | | | | | | | | | | | | | | | |
| <i>Ampelisca spp.</i> | 61690201SPP | | | | | | | | | | | | | | | | |
| <i>Ampelisca vadorum</i> | 6169020109 | | | | | | | | | | | | | | | | |
| <i>Ampelisca verrilli</i> | 6169020110 | | | | | | | | | | | | | | | | |
| <i>Ampharete finmarchica</i> | 5001670214 | | | | | | | | | | | | | | | | |
| <i>Ampharetidae spp.</i> | 500167SPP | | | | | | | | | | | | | | | | |
| <i>Amphipoda spp.</i> | 6168SPP | | | | | | | | | | | | | | | | |
| <i>Amphiporus angulus</i> | 4306050101 | | | | | | | | | | | | | | | | |
| <i>Amphiporus bioculatus</i> | 4306050110 | | | | | | | | | | | | | | | | |
| <i>Amphiporus cruentatus</i> | 4306050115 | | | | | | | | | | | | | | | | |
| <i>Amphiporus groenlandicus</i> | 4306050124 | | | | | | | | | | | | | | | | |
| <i>Amphitoe spp.</i> | 61690311SPP | | | | | | | | | | | | | | | | |
| <i>Amphitoe validia</i> | 6169040116 | | | | | | | | | | | | | | | | |
| <i>Arachis lafresnayi</i> | 5105030306 | | | | | | | | | | | | | | | | |
| <i>Aradara transversa</i> | 5506010201 | | | | | | | | | | | | | | | | |
| <i>Arcistrosyllis hartmannae</i> | 5001220102 | | | | | | | | | | | | | | | | |
| <i>Anomia simplex</i> | 5509090202 | | | | | | | | | | | | | | | | |
| <i>Aphechoaeta marioni</i> | 5001500307 | | | | | | | | | | | | | | | | |
| <i>Aphechoaeta nr. monilis</i> | 5001500301 | | | | | | | | | | | | | | | | |
| <i>Apocorophium acutum</i> | 6169150213 | | | | | | | | | | | | | | | | |
| <i>Arabella iricolor</i> | 5001330201 | | | | | | | | | | | | | | | | |
| <i>Aricidea catherinae</i> | 5001410208 | | | | | | | | | | | | | | | | |
| <i>Aricidea spp.</i> | 50014102SPP | | | | | | | | | | | | | | | | |
| <i>Astarte castanea</i> | 5515190110 | | | | | | | | | | | | | | | | |
| <i>Asychis elongata</i> | 5001630103 | | | | | | | | | | | | | | | | |
| <i>Avignathus squamatus</i> | 8129030202 | | | | | | | | | | | | | | | | |
| <i>Balanus venustus</i> | 6134020121 | | | | | | | | | | | | | | | | |
| <i>Batea catherinensis</i> | 6169100101 | | | | | | | | | | | | | | | | |
| <i>Bittium alternatum</i> | 5103460105 | | | | | | | | | | | | | | | | |
| <i>Bivalvia spp.</i> | 55SPP | | | | | | | | | | | | | | | | |
| <i>Boccardiella hamata</i> | 5001432801 | | | | | | | | | | | | | | | | |
| <i>Boonea seminuda</i> | 5108011403 | 2 | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| New Bedford Harbor - 1999 | Barcode | 5056015 | 5058017 | 5060015 | 5060017 | 5061015 | 5061017 | 5062015 | 5062017 | 5063015 | 5063016 | 5064015 | 5064017 | 5065015 | 5065017 | 5066015 | 5066017 | 5066019 | 5066019 |
| Area 3 - All Taxa | Station | 304 | 304 | 306 | 306 | 309 | 309 | 310 | 310 | 311 | 311 | 317 | 317 | 318 | 318 | 323 | 323 | | |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | | | | |
| <i>Brania clavata</i> | 5001230902 | | | | | | | | | | | | | | | | | | |
| <i>Brania wellfleetensis</i> | 5001230903 | 2 | | 9 | | | | | | | | | | | | | | | |
| <i>Busycon caerulea</i> | 5105010101 | | | | | | | | | | | | | | | | | | |
| <i>Cabiria incerta</i> | 5001220401 | | | | | | | | | | | | | | | | | | |
| <i>Callinectes sapidus</i> | 6189010301 | | | | | | | | | | | | | | | | | | |
| <i>Cancer irroratus</i> | 6188030108 | | | | | | | | | | | | | | | | | | |
| <i>Cancer spp.</i> | 61880301SPP | | | | | | | | | | | | | | | | | | |
| <i>Capitella capitata complex</i> | 5001600101 | 3 | | | | | | | | | | | | | | | | | |
| <i>Capitella Jonesi</i> | 50016001JONE | 2 | 2 | 4 | | | | 1 | 1 | 2 | | | | | | | | | |
| <i>Carazzietta nobsonae</i> | 5001432706 | | | | | | | | | | | | | | | | | | |
| <i>Catinoma tremaphoros</i> | 4302020101 | | | | | | | | | | | | | | | | | | |
| <i>Carinomella lactea</i> | 4302010201 | | | | | | | 2 | | | | | | | | | | | |
| <i>Caulieriella sp. A</i> | 50015002SP01 | | | | | | | | | | | | | | | | | | |
| <i>Caulieriella sp. B</i> | 50015002SP02 | | | 2 | | | | | | | | | | | | | | | |
| <i>Cerastoderma pinnulatum</i> | 5515220601 | | | | | | | | | | | | | | | | | | |
| <i>Cerebratulus lacteus</i> | 4303020209 | | | 3 | | | | | | | | | | | | | | | |
| <i>Cerebratulus spp.</i> | 4303022SPP | | | | | | | | | | | | | | | | | | |
| <i>Ceriantheopsis americanus</i> | 3743010201 | | | | | | | | | | | | | | | | | | |
| <i>Chaetopleura apiculata</i> | 5303060103 | | | | | | | | | | | | | | | | | | |
| <i>Chaetozone spp.</i> | 50015004SPP | | | | | | | | | | | | | | | | | | |
| <i>Cirratulidae spp.</i> | 5001505SPP | | | | | | | | | | | | | | | | | | |
| <i>Cirratulus sp. 1</i> | 50015001SP01 | | | | | | | | | | | | | | | | | | |
| <i>Cirriformia grandis</i> | 5001500104 | | | | | | | | | | | | | | | | | | |
| <i>Cirrophorus furcatus</i> | 5001410606 | | | | | | | | | | | | | | | | | | |
| <i>Clymenella torquata</i> | 5001630202 | | | 1 | | | | | | | | | | | | | | | |
| <i>Corbula contracta</i> | 5517020201 | 2 | | | | | | | | | | | | | | | | | |
| <i>Corophidae spp.</i> | 616915SPP | 2 | | | | | | | | | | | | | | | | | |
| <i>Coryphella rufibranchialis</i> | 514104011001 | | | | | | | | | | | | | | | | | | |
| <i>Crangon septemspinosa</i> | 6179220103 | | | | | | | | | | | | | | | | | | |
| <i>Crangonyx pseudogracilis</i> | 6169570101 | | | | | | | | | | | | | | | | | | |
| <i>Crassinella lunulata</i> | 5515200102 | 2 | | | | | | | | | | | | | | | | | |
| <i>Crassostrea virginica</i> | 5510020102 | 1 | | | | | | 1 | 1 | | | | | | | | | | |
| <i>Crepidula fornicate</i> | 510360204 | 4 | 108 | 20 | 1 | | | 8 | 36 | 7 | 102 | | | | | 2 | 2 | | |
| <i>Crepidula plana</i> | 5103640207 | 8 | 4 | 6 | | | | 4 | 6 | 2 | 7 | | | | | 1 | 6 | 1 | |
| <i>Crepidula spp.</i> | 51036402SPP | | | | | | | | | | | | | | | | 10 | | |
| <i>Cumingia tellinoides</i> | 5515350302 | | | | | | | | | | | | | | | | | | |
| <i>Cyllichna oryzia</i> | 5110040208 | | | | | | | | | | | | | | | | 16 | 101 | 1 |
| | | | | | | | | | | | | | | | | | 7 | 3 | |

| New Bedford Harbor - 1999 | Barcode | 5058015 | 5058017 | 5060015 | 5060017 | 5061015 | 5061017 | 5062015 | 5062017 | 5063015 | 5063016 | 5064015 | 5064017 | 5065015 | 5065017 | 5066015 | 5066017 |
|-------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 304 | 304 | 306 | 306 | 309 | 309 | 310 | 310 | 311 | 311 | 317 | 317 | 318 | 318 | 323 | 323 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 |
| NODC Code | | | | | | | | | | | | | | | | | |
| Decapoda spp. | 6175SPP | | | | | | | | | | | | | | | | 2 |
| Diaphana minuta | 5110090101 | | | | | | | | | | | | | | | | 3 |
| Diopatra cuprea | 5001290201 | | | | | | | | | | | | | | | | 3 |
| Diopolydora commensalis | 5001430410 | | | | | | | | | | | | | | | | |
| Diopolydora concharum | 5001430414 | | | | | | | | | | | | | | | | |
| Diopolydora socialis | 5001430402 | | | | | | | | | | | | | | | | 2 |
| Dorvillea (Schistomerings) rudolphi | 5001360504 | | | | | | | | | | | | | | | | |
| Diloneis longa | 5001330103 | | | | | | | | | | | | | | | | 1 |
| Dyspanopeus sayi | 6189020703 | | | | | | | | | | | | | | | | 1 |
| Ediotia triloba | 6162020703 | | | | | | | | | | | | | | | | |
| Edwardsia elegans | 3759010101 | | | | | | | | | | | | | | | | 1 |
| Elaasmopus laevis | 6169210301 | | | | | | | | | | | | | | | | 4 |
| Eobroligus spinosus | 6169421901 | | | | | | | | | | | | | | | | 2 |
| Epitomopta roseola | 8178010206 | | | | | | | | | | | | | | | | 1 |
| Erichthonius brasiliensis | 6169150302 | | | | | | | | | | | | | | | | 15 |
| Eteone heteropoda | 5001130207 | | | | | | | | | | | | | | | | |
| Eteone spp. | 50011302SPP | | | | | | | | | | | | | | | | |
| Euclymene collaris | 5001631102 | | | | | | | | | | | | | | | | 1 |
| Eunida sanguinea | 5001131101 | | | | | | | | | | | | | | | | 6 |
| Eusyllis lamelligera | 5001230606 | | | | | | | | | | | | | | | | 1 |
| Exogone dispar | 5001230701 | | | | | | | | | | | | | | | | 4 |
| Exogone spp. | 50012307SPP | | | | | | | | | | | | | | | | 3 |
| Fargoa barttschi | 5108011501 | | | | | | | | | | | | | | | | |
| Grammarus mucronatus | 6169210709 | | | | | | | | | | | | | | | | |
| Grammarus oceanicus | 6169210711 | | | | | | | | | | | | | | | | 1 |
| Grammarus spp. | 61692107SPP | | | | | | | | | | | | | | | | 1 |
| Gastropoda spp. | 51SPP | | | | | | | | | | | | | | | | 3 |
| Glyceria americana | 5001270104 | | | | | | | | | | | | | | | | 4 |
| Glyceria sp. 1 | 50012701SP01 | | | | | | | | | | | | | | | | 3 |
| Glyceridae spp. | 500127SPP | | | | | | | | | | | | | | | | 2 |
| Glycinde solitaria | 5001280104 | | | | | | | | | | | | | | | | 11 |
| Goniadiidae spp. | 500128SPP | | | | | | | | | | | | | | | | |
| Gyptis vittata | 5001210103 | | | | | | | | | | | | | | | | |
| Haminoea solitaria | 5110120102 | | | | | | | | | | | | | | | | 1 |
| Haimothoe extenuata | 5001020803 | | | | | | | | | | | | | | | | |
| Haimothoe ? nodosa | 5001020828 | | | | | | | | | | | | | | | | |
| Heterocrypta granulata | 6187020801 | | | | | | | | | | | | | | | | |

| New Bedford Harbor - 1999 | Barcode | 5058015 | 5058017 | 5060015 | 5060017 | 5061015 | 5061017 | 5062015 | 5062017 | 5063015 | 5063016 | 5064015 | 5064017 | 5065015 | 5065017 | 5066015 | 5066017 |
|--------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 304 | 304 | 306 | 306 | 309 | 309 | 310 | 310 | 311 | 311 | 317 | 317 | 318 | 318 | 323 | 323 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | | |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | | | | | | | | | | | | 7 |
| <i>Micicura</i> spp. | 43030205SPP | | | | | | | | | | | | | | | | |
| <i>Mitrella lunata</i> | 5105030207 | 2 | | | | | | 3 | | | | 3 | 9 | 1 | | 3 | 52 |
| <i>Montacuta percompressa</i> | 5515100407 | | | | | | | | | | | 1 | | | | | 2 |
| <i>Monticellina baptisteae</i> | 50015003BAPT | | | | | | | | | | | | | | | | |
| <i>Monticellina dorsobranchialis</i> | 5001500310 | | | | | | | | | | | | | | | | |
| <i>Mulinia lateralis</i> | 5515250301 | | | | | | | | | | | | | | | | |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | | |
| <i>Mytilidae</i> spp. | 550701SPP | 1 | 1 | | | | | | | | | 1 | | | | | |
| <i>Mytilus edulis</i> | 5507010101 | | | | | | | | | | | | 31 | | | | |
| <i>Neanthes succinea</i> | 5001240309 | 1 | | 1 | | 1 | | 11 | 25 | 2 | 5 | | | | | | 4 |
| <i>Nemertea</i> spp. | 43SPP | 1 | 3 | | | | | | | | | 3 | | | | | 1 |
| <i>Nephlys cornuta</i> | 5001250104 | | | | | | | | | | | | | | | | |
| <i>Nephlys incisa</i> | 5001250115 | 1 | | | | | | | | | | | 3 | 5 | | | 3 |
| <i>Nephlys picta</i> | 5001250117 | | | 2 | 2 | | | | | 1 | | | | 3 | | | 1 |
| <i>Nereis arenaceaodonta</i> | 5001240408 | | | 2 | | | | | | | | | | | | | |
| <i>Nereis grayi</i> | 5001240409 | | | | | | | | | | | | | | | | |
| <i>Nereis</i> spp. | 50012404SPP | | | | | | | | | | | 1 | | | | | |
| <i>Neverita duplicata</i> | 5103760407 | | | | | | | | | | | | | | | | |
| <i>Niniae nigripes</i> | 5001310204 | | | | | | | | | | | | 3 | 7 | | | 1 |
| <i>Notocitrus spiniferus</i> | 5001330301 | | | | | | | | | | | | | | | | |
| <i>Notomastus latericeus</i> | 5001600306 | | | | | | | | | | | | | | | 1 | 1 |
| <i>Nucula annulata</i> | 5502020205 | | | | | | | 2 | | 1 | | | 18 | 41 | | | 2 |
| <i>Nucula delphinodonta</i> | 5502020206 | | | | | | | | | | | | | | | | |
| <i>Nucula proxima</i> | 5502020204 | 1 | | 3 | | | | | | | | | | | | | 46 |
| <i>Nudibranchia</i> spp. | 5127SPP | | | | | | | | | | | | | | | | |
| <i>Odontosyllis fulgurans</i> | 5001231304 | | | | | | | | | 1 | | | | 1 | | | |
| <i>Oligochaeta</i> spp. | 50003SPP | 10 | 7 | | | | | 2 | | 78 | 28 | 20 | 41 | 70 | 12 | 82 | |
| <i>Onuphidae</i> spp. | 500129SPP | | | | | | | 2 | | | | | | | | | |
| <i>Ophiura</i> spp. | 81270106SPP | | | | | | | | | | | | | | | | |
| <i>Ophiuroidae</i> spp. | 8120SPP | | | | | | | | | | | | | | | | |
| <i>Owenia fusiformis</i> | 5001640102 | | | | | | | | | | | | | | | | |
| <i>Oxyurostylis smithi</i> | 6154050801 | | | | | | | | | | | | | 3 | | | |
| <i>Pagurus annulipes</i> | 6183060227 | | | | | | | 2 | 1 | | | | 1 | 2 | | 8 | 2 |
| <i>Pagurus</i> spp. | 61830602SPP | | | | | | | | | | | | | | | | |
| <i>Panopeus herbstii</i> | 6189020801 | | | | | | | | | | | | | | | | |
| <i>Paracaprella tenuis</i> | 6171010901 | | | | | | | | | | | | | 3 | | 3 | |

| New Bedford Harbor - 1999 | Barcode | 5058015 | 5058017 | 5060015 | 5060017 | 5061015 | 5061017 | 5062015 | 5062017 | 5063015 | 5063016 | 5064015 | 5064017 | 5065015 | 5065017 | 5066015 | 5066017 |
|----------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 304 | 304 | 306 | 306 | 309 | 309 | 310 | 310 | 311 | 311 | 317 | 317 | 318 | 318 | 323 | 323 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 |
| NODC Code | | | | | | | | | | | | | | | | | |
| Rhepoxyinus hudsoni | 6169421502 | | | 1 | 2 | | | | | | | 1 | | | | | |
| Rictaxis punctostriatus | 5110010403 | | | | | 4 | 1 | | | | | 7 | 24 | | | 10 | |
| Ridilemboides naglei | 6169061201 | | | 1 | 1 | | | | | | 11 | 4 | | | 5 | | 5 |
| Saccoglossus kowalevskii | 8201010302 | 1 | | | | | | | | | | | | | 1 | | |
| Scolelepis bousfieldi | 5001432002 | 3 | | | | | | | | | | 2 | 7 | | | 42 | 5 |
| Scolelepis spp. | 50014320SPP | | | | | | | | | | | | | | | | |
| Scolelepis texana | 5001432006 | | | | | 28 | 24 | | | | | | | | | | |
| Scoletona acicularum | 5001310149 | | | | | | | | | | | | | | | | |
| Scoletona hebes | 5001310140 | | | | | | | | | | | | | | 1 | 2 | |
| Scoletona tenuis | 50013101TENU | 6 | | | | | | | | | | | | | | | |
| Scoloplos (Leodamus) rubra | 5001400307 | | | | | | | | | | | | | | | | |
| Selia adamsi | 5103460401 | | | | | | | | | | | 4 | | | | | |
| Solemya velum | 5504010101 | | | | | | | | | | 1 | | | | 1 | | |
| Sphaerodoropsis minuta | 5001260201 | | | | | | | | | | | | | | | | |
| Sphaerosyllis longicauda | 5001230817 | | | | | | | | | | | 1 | | | | 1 | |
| Sphaerosyllis taylori | 5001230811 | 1 | | | | | | | | | | 3 | | | 3 | | |
| Spio setosa | 5001430704 | | | | | | | | | | | | | | | | |
| Spiochaetopterus oculatus | 5001490303 | | | | | | | | | | 1 | | | 1 | 1 | 1 | |
| Spionidae spp. | 500143SPP | | | | | | | | | | | | | | | | |
| Spiophanes bombyx | 5001431001 | | | 3 | 4 | | | | | | 1 | | | | | | |
| Spheneialis boa | 5001060302 | 2 | | | | | | | | | 2 | | | 1 | | | |
| Streblospio benedicti | 5001431801 | 1 | | | | | | 10 | | | 4 | 13 | | | | | |
| Streptosyllis ? varians | 5001231602 | | | | | | | | | | | 2 | | | 3 | | |
| Syllidae spp. | 500123SPP | | | | | | | | | | | 7 | | | | | |
| Syllides cf. verrilli | 5001231508CF | | | 1 | | | | | | | | 9 | | | | | |
| Tectonatica pusilla | 5103760601 | | | | 2 | | | | | | 3 | 1 | 1 | 3 | 1 | | |
| Tellina agilis | 5515310205 | 11 | 3 | 1 | 3 | 35 | 14 | 1 | 2 | | 3 | 4 | | | 15 | 8 | |
| Tellinidae spp. | 551531SPP | 1 | | | | | | | | | | | | | | | |
| Terebellidae spp. | 500168SPP | | | | | | | | | | | | | | | | |
| Thaliassinidea spp. | 6178SPP | | | | | | | | | | | | | | | | |
| Tharyx acutus | 5001500305 | 1 | | | | | | | | | | 2 | 6 | 1 | | 10 | 1 |
| Thyasira gouldii | 5515020301 | | | | | | | | | | | | | | | | |
| Turbellaria spp. | 3901SPP | | | | | | | | | | | | | | | | |
| Turbonilla aequalis | 5108010224 | | | | | | | | | | | | | | | | |
| Turbonilla areolata | 5108010209AR | | | | | | | | | | | | | | | | |
| Turbonilla elegantula | 5108010275 | | | | | | | | | | | | | | | | |
| Turbonilla interrupia | 5108010209 | | | | | | | | | | | | | | 2 | | |

| | | | | | | | | | | | | | | | | | |
|----------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| New Bedford Harbor - 1999 | Barcode | 5058015 | 5058017 | 5060015 | 5060017 | 5061015 | 5061017 | 5062015 | 5062017 | 5063015 | 5063016 | 5064015 | 5064017 | 5065015 | 5065017 | 5066015 | 5066017 |
| Area 3 - All Taxa | Station | 304 | 304 | 306 | 306 | 309 | 309 | 310 | 310 | 311 | 311 | 317 | 317 | 318 | 318 | 323 | 323 |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 2 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | | |
| Turbonilla spp. | 51080102SPP | | | | | | | | | | | | | | | | 22 |
| Turbonilla sumneri | 5108011102 | | | | | | | | | | | | | | | | |
| Turritellopsis acicula | 5103330201 | | | | | | | | | | | | | | | | |
| Typosyllis alternata | 5001230501 | | | | | | | | | | | | | | | | |
| Typosyllis regulata | 5001230513 | | | | | | | | | | | | | | | | |
| Unciota dissimilis | 6169150706 | | | | | | | | | | | | | | | | |
| Unciota irrorata | 6169150703 | | | | | | | | | | | | | | | | |
| Unciota spp. | 61691507SPP | | | | | | | | | | | | | | | | |
| Xanthididae spp. | 618902SPP | 1 | | | | | | | | | | | | | | | 2 |
| Yoldia limatula | 5502040511 | | | | | | | | | | | | | | | | 1 |
| Yoldia sapotilla | 5502040513 | | | | | | | | | | | | | | | | 1 |
| Yoldia spp. | 55020405SPP | | | | | | | | | | | | | | | | |
| Zaops ostreum | 6189060202 | | | | | | | | | | | | | | | | |
| Grand Total | | 485 | 452 | 120 | 138 | 498 | 247 | 76 | 231 | 1039 | 466 | 684 | 1278 | 534 | 193 | 1197 | 119 |

| New Bedford Harbor - 1999 | Barcode | 5067015 | 5067017 | 5068015 | 5068017 | 5071015 | 5071017 | 5072015 | 5072017 | 5073015 | 5073017 | 5074015 | 5074017 | 5075015 | 5075017 | 5076015 | 5076017 |
|-----------------------------|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 324 | 324 | 325 | 325 | 331 | 331 | 332 | 332 | 333 | 333 | 334 | 334 | 335 | 335 | 338 | 338 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| NODC Code | | | | | | | | | | | | | | | | | |
| Acteocina canaliculata | 5110040103 | 14 | 13 | 37 | 44 | 66 | 78 | 10 | 14 | | | | | 24 | 46 | 1 | 21 |
| Actinia spp. | 3758SPP | | | 2 | | | | | | | | | | | | | 31 |
| Actiniothoe sp. 1 | 37600502SPP01 | | | | 1 | | | | | | | | | | | | |
| Ameroculodes sp. 1 | 61693708SPP01 | | | | | | | | | | | | | 1 | | | |
| Ampelisca abdita | 6169020108 | 1 | | | | | | 1 | 1 | 7 | | | | 1 | | | 1 |
| Ampelisca macrocephala | 6169020101 | | | | | | | | | | | | | | | | |
| Ampelisca spp. | 61690201SPP | | | | | | | | | | | | | | | | |
| Ampelisca vadonum | 6169020109 | | 1 | | | | | | | 2 | | | | | 1 | | |
| Ampelisca verrilli | 6169020110 | | | | | | | 2 | 2 | | | | | 30 | 1 | | |
| Ampharete finmarchica | 5001670214 | | | | | | | | | | | | | 1 | | | |
| Ampharetidae spp. | 500167SPP | | | | | | | | | | | | | | | | |
| Amphipoda spp. | 6168SPP | | | | | | | | | | | | | | | | |
| Amphiporus angulatus | 4306050101 | 2 | | 1 | 7 | 4 | | 5 | | 5 | | | | 4 | 10 | | |
| Amphiporus bioculatus | 4306050110 | | | | | | | | | | | | | | | | |
| Amphiporus cruentatus | 4306050115 | | | | | | | | | | | | | 1 | | | |
| Amphiporus groenlandicus | 4306050124 | | | | | | | | | | | | | 1 | | | |
| Amphitoe spp. | 61690311SPP | | | | | | | | | | | | | 1 | | | |
| Amphitoe valida | 6169040116 | | | | | | | | | | | | | | | | |
| Anachis latresnayi | 5105030306 | 3 | | | | | | | | | | | | 2 | | | |
| Anadara transversa | 5506010201 | | | | | | | | | | | | | 1 | | | |
| Ancistrosyllis hartmannae | 5001220102 | | | | | | | | | | | | | 3 | | | |
| Aromia simplex | 5509090202 | | | | | | | | | | | | | | | | |
| Apheleochaeta marioni | 5001500307 | | | | | | | | | 2 | | | | | | | |
| Apheleochaeta nr. monilaris | 5001500301 | | | | | | | | | | | | | | | | |
| Apocorophium acutum | 6169150213 | | | | | | | | | | | | | | | | |
| Arabella iricolor | 5001330201 | | | | | | | | | | | | | | | | |
| Aricidea catherinae | 5001410208 | | | 8 | 18 | 9 | 6 | 3 | 2 | 10 | | 17 | 133 | 6 | 87 | 9 | |
| Aricidea spp. | 50014102SPP | | | | | | | | | | | | 3 | | | | |
| Astarte castanea | 5515190110 | | | | | | | | | | | | | 1 | | | |
| Asychis elongata | 5001630103 | 2 | 7 | | | 5 | 2 | 5 | | | | | 5 | 2 | | 1 | |
| Axonanthus squamatus | 8129030202 | | | | | | | | | | | | 1 | | | | |
| Balanus venustus | 6134020121 | | | | | | | | | | | | 3 | | 12 | | |
| Batea catherinensis | 6169100101 | | | | | | | | | | | | | | | | |
| Blitum alternatum | 5103460105 | | | | | | | | | | | | | | | 1 | |
| Bivalvia spp. | 55SPP | | | | | | | | | | | | | | | | |
| Boccardiella harmata | 5001432801 | | | | | | | | | | | | | | | | |
| Boonea seminuda | 5108011403 | | | | | | | | | | | | | | | | |

| New Bedford Harbor - 1999 | | Barcode | 5067016 | 5067017 | 5068015 | 5068017 | 5071015 | 5071017 | 5072015 | 5072017 | 5073015 | 5073017 | 5074015 | 5074017 | 5075015 | 5075017 | 5076015 | 5076017 |
|-----------------------------------|--------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | | Station | 324 | 324 | 325 | 325 | 331 | 331 | 332 | 332 | 333 | 333 | 334 | 334 | 335 | 335 | 338 | 338 |
| Taxon | NODC Code | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| <i>Brania clavata</i> | 5001230902 | | | | | | | | | | | | | | | | | |
| <i>Brania wellfleetensis</i> | 5001230903 | | | | | | | | | | | | | | | | | |
| <i>Busycon carica</i> | 5105070101 | | | | | | | | | | | | | | | | | |
| <i>Cabira incerta</i> | 5001220401 | | | | | | | | | | | | | | | | | |
| <i>Callinectes sapidus</i> | 6189010301 | | | | | | | | | | | | | | | | | |
| <i>Cancer irroratus</i> | 6188030108 | 1 | | | | | | | | | | | | | | | | |
| <i>Cancer spp.</i> | 61880301SPP | | | | | | | | | | | | | | | | | |
| <i>Capitella capitata complex</i> | 5001600101 | | | | | | | | | | | | | | | | | |
| <i>Capitella Jonesi</i> | 50016001JONE | | 1 | | | | | | | | | | | | | | | |
| <i>Carazzia hobsonae</i> | 5001432706 | | | | | | | | | | | | | | | | | 1 |
| <i>Carinoma tremaphoros</i> | 4302020101 | | | | | | | | | | | | | | | | | |
| <i>Carinomella lactea</i> | 4302010201 | | | | | | | | | | | | | | | | | |
| <i>Cauillerella sp. A</i> | 50015002SP01 | | | | | | | | | | | | | | | | | |
| <i>Cauillerella sp. B</i> | 50015002SP02 | | | | | | | | | | | | | | | | | |
| <i>Cerastoderma pinnulatum</i> | 5515220601 | | | | | | | | | | | | | | | | | |
| <i>Cerebratulus lacteus</i> | 4303020209 | | | | | | | | | | | | | | | | | |
| <i>Cerebratulus spp.</i> | 43030202SPP | | | | | | | | | | | | | | | | | |
| <i>Ceriantheopsis americanus</i> | 3743010201 | | | | | | | | | | | | | | | | | 1 |
| <i>Chaetopleura apiculata</i> | 5303060103 | | | | | | | | | | | | | | | | | 1 |
| <i>Chaetozone spp.</i> | 50015004SPP | | | | | | | | | | | | | | | | | |
| <i>Cirratulidae spp.</i> | 500150SPP | 1 | | | | | | | | | | | | | | 2 | 13 | |
| <i>Cirratulus sp. 1</i> | 50015001SP01 | | | | | | | | | | | | | | | | | |
| <i>Cirriformia grandis</i> | 5001500104 | | | | | | | | | | | | | | | | | |
| <i>Cirrrophorus furcatus</i> | 5001410606 | 1 | | 3 | | | | | | | | | | | | | | 3 |
| <i>Clymenella torquata</i> | 5001630202 | | | | | | | | | | | | | | | | | |
| <i>Corbula contracta</i> | 5517020201 | | | | | | | | | | | | | | | | | |
| <i>Corophiidae spp.</i> | 616915SPP | | | | | | | | | | | | | | | | | |
| <i>Coryphella rufibranchialis</i> | 514104011001 | | | | | | | | | | | | | | | | | |
| <i>Crangon septemspinosa</i> | 6179220103 | | | | | | | | | | | | | | | | | |
| <i>Crangonyx pseudogracilis</i> | 6169570101 | | | | | | | | | | | | | | | | | |
| <i>Crassimella lunulata</i> | 5515200102 | | | | | | | | | | | | | | | 2 | 5 | |
| <i>Crassostrea virginica</i> | 5510020102 | | | | | | | | | | | | | | | | | 1 |
| <i>Crepidula fornicalis</i> | 5103640204 | | | | | | | | | | | | | | | | | 81 |
| <i>Crepidula plana</i> | 5103640207 | | | | | | | | | | | | | | | | | 11 |
| <i>Crepidula spp.</i> | 51036402SPP | | | | | | | | | | | | | | | | | |
| <i>Cummingia tellinoides</i> | 5515350302 | | | | | | | | | | | | | | | | | |
| <i>Cylichna oryzae</i> | 5110040208 | 103 | 96 | 19 | 121 | 18 | 35 | 11 | 124 | | 29 | 109 | | | | 13 | 81 | |

| New Bedford Harbor - 1999 | Barcode | 5067015 | 5067017 | 5068015 | 5068017 | 5071015 | 5071017 | 5072015 | 5072017 | 5073015 | 5073017 | 5074015 | 5074017 | 5075015 | 5075017 | 5076015 | 5076017 |
|--|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 324 | 324 | 325 | 325 | 331 | 331 | 332 | 332 | 333 | 333 | 334 | 334 | 335 | 335 | 338 | 338 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| NODC Code | | | | | | | | | | | | | | | | | |
| Decapoda spp. | 6175SPP | | | | | | | | | | | | | | | | |
| <i>Diaphana minuta</i> | 5110090101 | | | | | | | | | | | | | | | | |
| <i>Diopatra cuprea</i> | 5001290201 | | | | | | | | | | | | | | | | |
| <i>Dipolydora commensalis</i> | 5001430410 | | | | | | | | | | | | | | | | |
| <i>Dipolydora concharum</i> | 5001430414 | | | | | | | | | | | | | | | | |
| <i>Dipolydora socialis</i> | 5001430402 | | | | | | | | | | | | | | | | |
| <i>Dorvillea (Schistomerings) rudolphi</i> | 5001360504 | | | | | | | | | | | | | | | | |
| <i>Dilloneteis longa</i> | 5001330103 | | | | | | | | | | | | | | | | |
| <i>Dyspanopeus sayi</i> | 6189020703 | | | | | | | | | | | | | | | | |
| <i>Eddotia triloba</i> | 6162020703 | | | | | | | | | | | | | | | | |
| <i>Edwardsia elegans</i> | 3759010101 | | | | | | | | | | | | | | | | |
| <i>Elasmopus laevis</i> | 6169210301 | | | | | | | | | | | | | | | | |
| <i>Eobrolgus spinosus</i> | 6169421901 | | | | | | | | | | | | | | | | |
| <i>Epilomapta roseola</i> | 8178010206 | | | | | | | | | | | | | | | | |
| <i>Erichthonius brasiliensis</i> | 6169150302 | | | | | | | | | | | | | | | | |
| <i>Eteone heteropoda</i> | 5001130207 | | | | | | | | | | | | | | | | |
| <i>Eteone spp.</i> | 50011302SPP | | | | | | | | | | | | | | | | |
| <i>Euclymene collaris</i> | 5001631102 | | | | | | | | | | | | | | | | |
| <i>Eumida sanguinea</i> | 5001131101 | | | | | | | | | | | | | | | | |
| <i>Eusyllis lamelligera</i> | 5001230606 | | | | | | | | | | | | | | | | |
| <i>Exogone dispar</i> | 5001230701 | | | | | | | | | | | | | | | | |
| <i>Exogone spp.</i> | 50012307SPP | | | | | | | | | | | | | | | | |
| <i>Fargoa barttschi</i> | 5108011501 | | | | | | | | | | | | | | | | |
| <i>Gammarus mucronatus</i> | 6169210709 | | | | | | | | | | | | | | | | |
| <i>Gammarus oceanicus</i> | 6169210711 | | | | | | | | | | | | | | | | |
| <i>Gammarus spp.</i> | 61692107SPP | | | | | | | | | | | | | | | | |
| <i>Gastropoda spp.</i> | 51SPP | 1 | | | | | | | | | | | | | | | |
| <i>Glyceria americana</i> | 5001270104 | | | | | | | | | | | | | | | | |
| <i>Glyceria sp. 1</i> | 50012701SP01 | | | | | | | | | | | | | | | | |
| <i>Glyceridae spp.</i> | 500127SPP | 1 | | | | | | | | | | | | | | | |
| <i>Glycinde solitaria</i> | 5001280104 | 3 | 5 | 1 | | | | | | | | | | | | | |
| <i>Goniadidae spp.</i> | 500128SPP | | | | | | | | | | | | | | | | |
| <i>Cypris vitata</i> | 5001210103 | | | | | | | | | | | | | | | | |
| <i>Haminoea solitaria</i> | 5110120102 | 2 | | | | | | | | | | | | | | | |
| <i>Harmothoe extenuata</i> | 5001020803 | | | | | | | | | | | | | | | | |
| <i>Harmothoe ? nodosa</i> | 5001020828 | | | | | | | | | | | | | | | | |
| <i>Heterocrypta granulata</i> | 6187020801 | | | | | | | | | | | | | | | | |

| New Bedford Harbor - 1999 | Barcode | 5067015 | 5067017 | 5068015 | 5068017 | 5071015 | 5071017 | 5072015 | 5072017 | 5073015 | 5073017 | 5074015 | 5074017 | 5075015 | 5075017 | 5076015 | 5076017 |
|--------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 324 | 324 | 325 | 325 | 331 | 331 | 332 | 332 | 333 | 333 | 334 | 334 | 335 | 335 | 338 | 338 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | | | |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | | | | | | | | | | | | |
| <i>Micriura</i> spp. | 43030205SPP | | | | | | | | | | | | | | | | |
| <i>Mirella lunata</i> | 5105030207 | | | | | | | | | | | | | | | 11 | 11 |
| <i>Montacuta percompresso</i> | 5515100407 | | | | | | | | | | | | | | | | |
| <i>Monticellina baptisteae</i> | 50015003BAPT | | | | | | | | | | | | | | 4 | | 1 |
| <i>Monticellina dorsobranchialis</i> | 5001500310 | | | | | | | | | | | | | | | | |
| <i>Mulinia lateralis</i> | 5515250301 | 1 | 49 | 225 | 54 | 68 | 2 | | | | | | | | | | |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | | | | |
| <i>Mytilidae</i> spp. | 550701SPP | | | | | | | | | | | | | | | | |
| <i>Mytilus edulis</i> | 5507010101 | | | | | | | | | | | | | | | | |
| <i>Neanthes succinea</i> | 5001240309 | | | | | | | | | | | | | | | | |
| <i>Nemertea</i> spp. | 43SPP | | | | | | | | | | | | | | | | |
| <i>Nephritis cornuta</i> | 5001250104 | | | | | | | | | | | | | | | | |
| <i>Nephrys incisa</i> | 5001250115 | 7 | 5 | 8 | 7 | 5 | 3 | | | | | | | | | | |
| <i>Nephrys picta</i> | 5001250117 | | | | | | | | | | | | | | | | |
| <i>Nereis arenaceaodontata</i> | 5001240408 | | | | | | | | | | | | | | | | |
| <i>Nereis grayi</i> | 5001240409 | | | | | | | | | | | | | | | | |
| <i>Nereis</i> spp. | 50012404SPP | | | | | | | | | | | | | | | | |
| <i>Neverita duplicata</i> | 5103760407 | 2 | | | | | | | | | | | | | 1 | | |
| <i>Ninoe nigripes</i> | 5001310204 | 6 | 1 | 5 | 7 | 9 | 3 | 5 | 14 | 2 | | | | | | 20 | 2 |
| <i>Notocirrus spiniferus</i> | 5001330301 | | | | | | | | | | | | | | | | |
| <i>Notomastus latericeus</i> | 5001600306 | | | | | | | | | | | | | | | | |
| <i>Nucula annulata</i> | 5502020205 | 106 | 146 | 14 | | 19 | | | | | | | | | | | |
| <i>Nucula delphinodonta</i> | 5502020206 | | | | | | | | | | | | | | | | |
| <i>Nucula proxima</i> | 5502020204 | | | | | | | 10 | | 2 | 1 | 6 | | | | | |
| <i>Nudibranchia</i> spp. | 5127SPP | | | | | | | | | | | | | | | | |
| <i>Odontosyllis fulgurans</i> | 5001231304 | | | | | | | | | | | | | | | | |
| <i>Oligochaeta</i> spp. | 5003SPP | 15 | 4 | 6 | 3 | 92 | 86 | 7 | 30 | 87 | 113 | 2 | 12 | 50 | 31 | 23 | 13 |
| <i>Onuphidae</i> spp. | 5001298SPP | 1 | | | | | | | | | | | | 1 | | | |
| <i>Ophiura</i> spp. | 81270106SPP | | | | | | | | | | | | 2 | | | | |
| <i>Ophiuroidae</i> spp. | 8120SPP | | | | | | | | | | | | | | | | |
| <i>Owenia fusiformis</i> | 5001640102 | | | | | | | | | | | | | | | 1 | |
| <i>Oxyurostylis smithi</i> | 6154050801 | 2 | | 1 | | | | | | | | | | | 1 | 2 | 1 |
| <i>Pagurus annulipes</i> | 6183060227 | | | | | | | | | | | | | | | 3 | 2 |
| <i>Pagurus</i> spp. | 61830602SPP | | | | | | | | | | | | | | | 5 | 1 |
| <i>Panopeus herbstii</i> | 6189020801 | | | | | | | | | | | | | | | | 1 |
| <i>Paracaprella tenuis</i> | 6171010901 | | | | | | | | | | | | | | | | |

| New Bedford Harbor - 1999 | Barcode | 5067015 | 5067017 | 5068015 | 5068017 | 5071015 | 5071017 | 5072015 | 5072017 | 5073015 | 5073017 | 5074015 | 5074017 | 5075015 | 5075017 | 5076015 | 5076017 |
|-------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 324 | 324 | 325 | 331 | 331 | 332 | 332 | 333 | 333 | 334 | 334 | 335 | 335 | 338 | 338 | |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| NODC Code | | | | | | | | | | | | | | | | | |
| <i>Rheopoxynius hudsoni</i> | 6169421502 | | | | | | | | | | | | | | | | |
| <i>Rictaxis punctostriatus</i> | 5110010403 | 24 | 25 | | 15 | 15 | 14 | | 3 | | | | 2 | 20 | | 2 | 2 |
| <i>Rudilimboides naglei</i> | 6169061201 | | | | | | | | | 5 | 11 | | | 2 | | | |
| <i>Saccoglossus kowalevskii</i> | 8201010302 | 1 | 1 | | 2 | 10 | | | | | | | 4 | | | 13 | 5 |
| <i>Scolelepis bousfieldi</i> | 5001432002 | 42 | 41 | 4 | 7 | 1 | 1 | 4 | 29 | | | 3 | 12 | | | 16 | 3 |
| <i>Scolelepis spp.</i> | 50014320SPP | | | | | | | | | | | | | | | | |
| <i>Scolelepis texana</i> | 5001432006 | | | | | | | | | | | | | | | | |
| <i>Sculetoma aciculatum</i> | 5001310149 | | | | | | | | | | | | | | | | |
| <i>Sculetoma hebes</i> | 5001310140 | | | | | | | | | | | | | | | | |
| <i>Sculetoma tenuis</i> | 50013101TENU | | | | | 3 | | | | 2 | | | 2 | 2 | 1 | | 2 |
| <i>Scolopios (Leptodamus) rubra</i> | 5001400307 | | | | | | | | | | | | | | 1 | | |
| <i>Seila adamsi</i> | 5103460401 | | | | | | | | | | | | | | | | |
| <i>Solemya velum</i> | 5504010101 | | | | | | | | | | | | | | | | |
| <i>Sphaerodoropsis minula</i> | 5001260201 | | | | | | | | | | | | | 3 | | | |
| <i>Sphaerosyllis longicauda</i> | 5001230817 | | | | | | | | 1 | | | 2 | 1 | | | | |
| <i>Sphaerosyllis taylori</i> | 5001230811 | | | | | 1 | | | | 2 | | 2 | 1 | 1 | 1 | | |
| <i>Spio setosa</i> | 5001430704 | | | | | | | | | | | | | | | | |
| <i>Spirochaetopterus oculatus</i> | 5001490303 | | | | | | | | | | | | 2 | | | | |
| <i>Spioniidae spp.</i> | 500143SPP | | | | | | | | | | | | | | | | |
| <i>Spiophanes bombyx</i> | 5001431001 | | | | | | | | | | | | | 1 | | | |
| <i>Sthenelais boa</i> | 5001060302 | | | | | | | | | | | | | | | | |
| <i>Streblospio benedicti</i> | 5001431801 | | | | | | | | | | | | | | | | |
| <i>Streptosyllis ? varians</i> | 5001231602 | | | | | | | | | | | | | | | | |
| <i>Syllidae spp.</i> | 500123SPP | | | | | | | | | | | | | | | | |
| <i>Syllides cf. verrilli</i> | 5001231508CF | | | | | 1 | | | | | | | | 1 | | | |
| <i>Tectonatica pusilla</i> | 5103769601 | 1 | | | | 2 | | | | | | | | | | | |
| <i>Tellina agilis</i> | 5515310205 | 4 | 1 | | 9 | 1 | 2 | 2 | 10 | | | | 16 | | 2 | 2 | 1 |
| <i>Telliinidae spp.</i> | 551531SPP | 5 | | | | | | | 2 | 1 | | | | | | | 2 |
| <i>Terbellidae spp.</i> | 500168SPP | | | | | | | | | 1 | | | | | | | |
| <i>Thalassinidea spp.</i> | 6178SPP | | | | | | | | | | | | | | | | |
| <i>Tharyx acutus</i> | 5001500305 | 1 | 2 | | | | | | | | | 63 | 1 | 83 | 2 | 17 | 138 |
| <i>Thyasira gouldii</i> | 5515020301 | | | | | | | | | 1 | 3 | | | | | | |
| <i>Tubellaria spp.</i> | 3901SPP | | | | | | | | | | | | 1 | 1 | | | |
| <i>Turbonilla aequalis</i> | 5108010224 | | | | | | | | | | | | | | | | |
| <i>Turbonilla areolata</i> | 5108010209AR | | | | | | | | | | | | 5 | | | | |
| <i>Turbonilla elegantula</i> | 5108010275 | | | | | | | | 1 | 6 | 4 | | | 2 | 3 | | |
| <i>Turbonilla interrupta</i> | 5108010209 | | | | | | | | | 1 | 5 | 2 | | 2 | | | 2 |

| New Bedford Harbor - 1999 | Barcode | 5067015 | 5067017 | 5068015 | 5068017 | 5071015 | 5071017 | 5072015 | 5072017 | 5073015 | 5073017 | 5074015 | 5074017 | 5075015 | 5075017 | 5076015 | 5076017 |
|----------------------------------|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 324 | 324 | 325 | 325 | 331 | 331 | 332 | 332 | 333 | 333 | 334 | 334 | 335 | 335 | 338 | 338 |
| Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 3 |
| Taxon | NODC Code | | | | | | | | | | | | | | | | |
| Turbonilla spp. | 51080102SPP | 5 | | | | | | | | | | | | | | 1 | |
| Turbonilla summeri | 5108011102 | | 12 | | | 3 | 3 | 48 | | 30 | | | | | 8 | | 7 |
| Turritellopsis acicula | 5103330201 | | | | | | | | | | | | | | 1 | | |
| Typosyllis alternata | 5001230501 | | | | | | 1 | | | | | | | | | | |
| Typosyllis regulata | 5001230513 | | | | | | | | | | | | | | 1 | | |
| Unciola dissimilis | 6169150706 | | | | | | | | | | | | | | | | |
| Unciola inornata | 6169150703 | | | | | | | | | | | | | | 1 | | |
| Unciola spp. | 61691507SPP | | | | | | | | | | | | | | | | |
| Xanthidiae spp. | 618902SPP | | | | | | | | | | | | | | | | |
| Yoldia limatula | 5502040511 | 5 | | 1 | | | | | | | | | | | | 1 | |
| Yoldia sapotilla | 5502040513 | | | | | | | | | | | | | | | 1 | |
| Yoldia spp. | 55020405SPP | | | | | | | | | | | | | | | | |
| Zaops ostreum | 6189060202 | 2 | | | 2 | | | 1 | | | 1 | | 1 | | 1 | | |
| Grand Total | | 858 | 1241 | 500 | 816 | 1185 | 1325 | 133 | 983 | 204 | 727 | 207 | 933 | 563 | 477 | 1179 | 319 |

| New Bedford Harbor - 1999 | Barcode | 5077015 | 5077017 | 5078015 | 5078017 | 5079015 | 5079017 | 5081015 | 5081017 | 5082015 | 5082017 | 5083015 | 5083017 | 5085015 | 5085017 |
|--|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 339 | 339 | 340 | 340 | 341 | 341 | 345 | 345 | 346 | 346 | 349 | 349 | 352 | 352 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | Total |
| <i>Acteocina canaliculata</i> | 5110040103 | 20 | 3 | 27 | 27 | 30 | 19 | 13 | 11 | | | 21 | 6 | | 661 |
| <i>Actiniaria</i> spp. | 3758SPP | | 1 | | | | | | | | | | | | 3 |
| <i>Actinothoe</i> sp. 1 | 37600502SP01 | | | | | | | | | | | | | | 1 |
| <i>Ameroculodes</i> sp. 1 | 61693708SP01 | | | | | | | | | | | | | | 2 |
| <i>Ampelisca abdita</i> | 6169020108 | 1 | 1 | 2 | 3 | 1 | 2 | 2 | 1 | | | 1 | | | 35 |
| <i>Ampelisca macrocephala</i> | 6169020101 | | | | | | | | | | | 3 | | | 4 |
| <i>Ampelisca</i> spp. | 61690201SPP | | | | | | | | | | | | | | 3 |
| <i>Ampelisca vadorum</i> | 6169020109 | | | 3 | | | | | | | | 1 | | | 21 |
| <i>Ampelisca verrilli</i> | 6169020110 | | | 1 | | | | 1 | | | | 47 | 3 | 2 | 92 |
| <i>Ampharetete finmarchica</i> | 5001670214 | | | | | | | | 1 | | | 2 | 1 | 1 | 5 |
| <i>Ampharetidae</i> spp. | 500167SPP | | | | | | | | | | | | | | 1 |
| <i>Amphipoda</i> spp. | 6168SPP | | | | | | | | | | | | | | 2 |
| <i>Amphiporus angulatus</i> | 4306050101 | 1 | | 5 | | | 2 | | | | | 1 | 1 | | 58 |
| <i>Amphiporus biocellatus</i> | 4306050110 | | | | | | | | | | | 2 | | | 2 |
| <i>Amphiporus cruentatus</i> | 4306050115 | | | | | | | | | | | | | | 3 |
| <i>Amphiporus groenlandicus</i> | 4306050124 | 3 | | | | 1 | | | | | | | | | 5 |
| <i>Amphitoe</i> spp. | 61690311SPP | | | | | | | | | | | | | | 1 |
| <i>Amphithoe validia</i> | 6169040116 | | | | | | | | | | | | | | 2 |
| <i>Anachis lafreshnayi</i> | 5105030306 | | | | | | | | | | | | | | 12 |
| <i>Anadara transversa</i> | 5506010201 | | | | | 1 | | | | | | 2 | | | 2 |
| <i>Ancistrosyllis hartmanae</i> | 500120102 | | | | | | | | | | | 4 | 1 | 1 | 24 |
| <i>Anomia simplex</i> | 5509090202 | | | | | | | | | | | 12 | 1 | 1 | 14 |
| <i>Aphelocheaeta marioni</i> | 5001500307 | | | | | | | | | | | | | | 2 |
| <i>Aphelocheaeta</i> nr. <i>monilans</i> | 5001500301 | 1 | | | | | | | | | | | | | 7 |
| <i>Apocorophium acutum</i> | 6169150213 | | | | | | | | | | | | | | 4 |
| <i>Arabella iricolor</i> | 5001330201 | | | | | | | | | | | 2 | 6 | 1 | 15 |
| <i>Aricidea catherinae</i> | 5001410208 | 26 | 24 | 87 | 140 | 99 | 7 | 71 | 12 | 13 | 7 | 2 | 2 | 4 | 5 |
| <i>Aricidea</i> spp. | 50014102SPP | | | | | 1 | | 1 | | | | | | | 5 |
| <i>Astarte castanea</i> | 5515190110 | | | | | | | | | | | | 4 | | 5 |
| <i>Asychis elongata</i> | 5001630103 | | | | | 1 | 1 | | | | 3 | | 3 | | 43 |
| <i>Axiognathus squamatus</i> | 8129030202 | | | | | | | | | | | 2 | | | 3 |
| <i>Balanus venustus</i> | 6134020121 | | | | | | | | | | | | | | 21 |
| <i>Balea catherinensis</i> | 6169100101 | | | | | | | | | | | | 1 | 13 | |
| <i>Bitium alternatum</i> | 5103460105 | | | | | | | | | | | | | | 205 |
| <i>Bivalvia</i> spp. | 55SPP | | | | | | | | | | | | | | 3 |
| <i>Boccardiella hamata</i> | 5001432801 | | | | | | | | | | | | | | 7 |
| <i>Boonea seminuda</i> | 5108011403 | | | | | | | | | | | | | | 32 |

| Taxon | Barcode | 5077015 | 5077017 | 5078015 | 5078017 | 5079015 | 5079017 | 5081015 | 5081017 | 5082015 | 5082017 | 5083015 | 5083017 | 5085015 | 5085017 |
|-----------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| | Station | 339 | 339 | 340 | 340 | 341 | 341 | 345 | 345 | 346 | 346 | 349 | 349 | 352 | 352 |
| | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | Total |
| <i>Briania olavata</i> | 5001230902 | 1 | | | | | | | | | | | | | 5 |
| <i>Briania wellfleetensis</i> | 5001230903 | | | | | | | | | | | | | | 143 |
| <i>Busycon carica</i> | 5105070101 | | | | | | | | | | | | | | 1 |
| <i>Cabira incerta</i> | 50012220401 | | | | | | | | | | | | | | 9 |
| <i>Callinectes sapidus</i> | 6189010301 | | | | | | | | | | | | | | 2 |
| <i>Cancer irroratus</i> | 6188030108 | | | | | | | | | | | | | | 41 |
| <i>Cancer spp.</i> | 61880301SPP | | | | | | | | | | | | | | 4 |
| <i>Capitella capitata complex</i> | 5001600101 | | | | | | | | | | | | | | 6 |
| <i>Capitella jonesi</i> | 50016001JONE | | | | | | | | | | | | | | 1 |
| <i>Carazziella hobsonae</i> | 5001432706 | 2 | 5 | 40 | | | | 1 | | | | | | | 15 |
| <i>Carinoma tremaphoros</i> | 4302020101 | | | | | | | | | | | | | | 61 |
| <i>Carinomelia lacaea</i> | 4302010201 | 7 | 1 | 3 | | | | 2 | | | | | | | 11 |
| <i>Caullerella sp. A</i> | 50015002SP01 | | | | | | | | | | | | | | 55 |
| <i>Caullerella sp. B</i> | 50015002SP02 | | | | | | | | | | | | | | 212 |
| <i>Cerastoderma pinnulatum</i> | 5515220601 | | | | | | | 1 | | | | | | | 6 |
| <i>Cerebratulus lacteus</i> | 4303020209 | | | | | | | | | | | | | | 3 |
| <i>Cerebratulus spp.</i> | 43030202SPP | 1 | | | | | | | | | | | | | 2 |
| <i>Cerianthopsis americanus</i> | 3743010201 | 1 | | | | | | | | | | | | | 4 |
| <i>Chaetopleura apiculata</i> | 5303060103 | | | | | | | | | | | | | | 4 |
| <i>Chaetozone spp.</i> | 50015004SPP | | | | | | | | | | | | | | 4 |
| <i>Cirratulidae spp.</i> | 5001150SPP | | | | | | | | | | | | | | 52 |
| <i>Cirratulus sp. 1</i> | 50015001SP01 | | | | | | | | | | | | | | 4 |
| <i>Cirriformia grandis</i> | 5001500104 | | | | | | | | | | | | | | 3 |
| <i>Cirriphorus furcatus</i> | 5001410606 | 1 | 1 | 3 | | | | 6 | | | | | | | 53 |
| <i>Clymenella torquata</i> | 5001630202 | | | | | | | | | | | | | | 3 |
| <i>Corbula contracta</i> | 5517020201 | | | | | | | | | | | | | | 2 |
| <i>Corophidae spp.</i> | 616915SPP | | | | | | | | | | | | | | 3 |
| <i>Conyphella rufibranchialis</i> | 514104011001 | | | | | | | | | | | | | | 1 |
| <i>Crangon septemspinosa</i> | 6179220103 | | | | | | | 1 | | | | | | | 3 |
| <i>Crangonyx pseudogracilis</i> | 6169570101 | | | | | | | | | | | | | | 37 |
| <i>Crassimella lunulata</i> | 5515200102 | | | | | | | | | | | | | | 8 |
| <i>Crassostrea virginica</i> | 5510020102 | | | | | | | | | | | | | | 2 |
| <i>Crepidula fornicalis</i> | 5103640204 | | | | | | | | | | | | | | 10 |
| <i>Crepidula plana</i> | 5103640207 | | | | | | | | | | | | | | 5 |
| <i>Crepidula spp.</i> | 51036402SPP | | | | | | | | | | | | | | 78 |
| <i>Cumlingia tellinoides</i> | 5515350302 | | | | | | | | | | | | | | 10 |
| <i>Cylichna oryzia</i> | 5110040208 | 107 | 39 | 65 | 51 | 70 | 3 | 41 | 17 | 2 | 2 | 14 | 14 | 2 | 1309 |

| New Bedford Harbor - 1999 | Barcode | 5077015 | 5077017 | 5078015 | 5078017 | 5079015 | 5079017 | 5081015 | 5081017 | 5082015 | 5082017 | 5083015 | 5083017 | 5085015 | 5085017 |
|--------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Area 3 - All Taxa | Station | 339 | 339 | 340 | 340 | 341 | 341 | 345 | 345 | 346 | 346 | 349 | 349 | 352 | 352 |
| Taxon | Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| | NODC Code | | | | | | | | | | | | | | Total |
| <i>Microprotopus raneyi</i> | 6169260901 | | | | | | | | | | | | | | 7 |
| <i>Micrura</i> spp. | 43030205SPP | 1 | | 1 | | | | | | | | | | | 9 |
| <i>Mitrella lunata</i> | 5105030207 | | | 8 | 13 | | | | | 2 | 1 | 8 | 1 | 13 | 149 |
| <i>Montacula percompressa</i> | 5515100407 | | | | | | | | | | | | | | 1 |
| <i>Monticellina baptisteae</i> | 50015003BAPT | | | 5 | 14 | | 4 | | 1 | 1 | | | | | 33 |
| <i>Monticellina dorsobranchialis</i> | 5001500310 | 2 | | 1 | 1 | 2 | | | | | | 4 | | | 55 |
| <i>Mulinia lateralis</i> | 5515250301 | 6 | 4 | | 2 | 1 | 1 | 7 | 1 | | 1 | 2 | | | 719 |
| <i>Mysella planulata</i> | 5515100110 | | | | | | | | | | | | | 1 | 1 |
| <i>Mytilidae</i> spp. | 550701SPP | | | | | | | | | | | | | | 4 |
| <i>Mytilus edulis</i> | 5507010101 | | | | | | | | | 2 | | | | | 33 |
| <i>Neanthes succinea</i> | 5001240309 | | | | | | | | | | | | | | 53 |
| <i>Nemertea</i> spp. | 43SPP | | | | | | | | | | | 2 | | | 19 |
| <i>Nephlys cornuta</i> | 5001250104 | | | | | | | | | | | | | | 6 |
| <i>Nephlys incisa</i> | 5001250115 | 12 | 10 | 9 | 3 | 7 | 4 | 14 | 13 | | 3 | 3 | | | 150 |
| <i>Nephlys picta</i> | 5001250117 | | | | | | | | | | | | | | 11 |
| <i>Nereis arenaceaedonta</i> | 5001240408 | | | | | | | | | | | | | | 2 |
| <i>Nereis grayi</i> | 5001240409 | | | | | 1 | 1 | | | | | | | | 6 |
| <i>Nereis</i> spp. | 50012404SPP | | | | | | | | | | | | | | 1 |
| <i>Neverita duplicata</i> | 5103760407 | 1 | | | | | | 1 | | | | | | | 6 |
| <i>Ninoe nigripes</i> | 5001310204 | 22 | 21 | 32 | 37 | 80 | 14 | 32 | 15 | 6 | 4 | 10 | 5 | 6 | 406 |
| <i>Notocirrus spiniferus</i> | 5001330301 | | | | | | | | | | | 1 | | | 1 |
| <i>Notomastus latericeus</i> | 5001600306 | | | | | 1 | | | | | | | | | 7 |
| <i>Nucula annulata</i> | 5502020205 | 25 | 65 | 11 | 14 | | | 77 | 105 | | 1 | 1 | | | 858 |
| <i>Nucula delphinodonta</i> | 5502020206 | | | | 2 | | | | | | | | | | 2 |
| <i>Nucula proxima</i> | 5502020204 | | | | 4 | | | | | 2 | | 3 | | 4 | 82 |
| <i>Nudibranchia</i> spp. | 5127SPP | | | | | | | | | | | | | | 1 |
| <i>Odontosyllis fulgurans</i> | 5001231304 | | | | | | | | | | | | | | 2 |
| <i>Oligochaeta</i> spp. | 5003SPP | 15 | 13 | 3 | 3 | 15 | 4 | 53 | 26 | 2 | | 63 | 104 | | 1225 |
| <i>Omphididae</i> spp. | 500129SPP | | | | | | | | | | | | | | 4 |
| <i>Ophiura</i> spp. | 81270106SPP | | | | | | | | | | | | | | 2 |
| <i>Ophiouroidea</i> spp. | 8120SPP | | | | | | | | | | | | | | 1 |
| <i>Owenia fusiformis</i> | 5001640102 | | | | | | | | | | | | | | 1 |
| <i>Oxyurostylis smithi</i> | 6154050801 | | | | | | | | | | | | | | 14 |
| <i>Pagurus</i> annulipes | 6183060227 | | | | | | | | | | 1 | 16 | | | 65 |
| <i>Pagurus</i> spp. | 61830602SPP | | | | | | | | | | | | 4 | | 12 |
| <i>Panopeus herbstii</i> | 6189020801 | | | | | | | | | | 1 | | | | 3 |
| <i>Paracaprella tenuis</i> | 6171010901 | | | | | | | | | | | | | | 6 |

| Taxon | NODC Code | Barcode | 5077015 | 5077017 | 5078015 | 5078017 | 5079015 | 5079017 | 5081015 | 5081017 | 5082015 | 5082017 | 5083015 | 5083017 | 5085015 | 5085017 | |
|---------------------------------------|--------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|
| Station | Replicate | 339 | 339 | 340 | 340 | 341 | 341 | 345 | 345 | 346 | 346 | 349 | 349 | 349 | 349 | 352 | 352 |
| | | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 |
| <i>New Bedford Harbor - 1999</i> | | | | | | | | | | | | | | | | | Total |
| <i>Rictaxis punctostriatus</i> | 5110010403 | 1 | 2 | 4 | 4 | 5 | 5 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 1 | 4 |
| <i>Ruditellimboides naglei</i> | 6169061201 | | | | | | | | | | | | | | | 6 | 2 |
| <i>Saccoglossus kowalevskii</i> | 8201010302 | 23 | 21 | | | 6 | | 19 | 4 | | 1 | | 1 | 2 | | 2 | 53 |
| <i>Scolelepis bousfieldi</i> | 5001432002 | 70 | 46 | 5 | 12 | 46 | 5 | 23 | 40 | | 11 | 2 | | | | | 114 |
| <i>Scolelepis</i> spp. | 50014320SPP | | | | | | | | 7 | | | | | | | | 482 |
| <i>Scolelepis texana</i> | 5001432006 | | | | | | | | | | | | | | | | 7 |
| <i>Scoletoma aciculatum</i> | 5001310149 | | | | | | | | | | | | | | | | 52 |
| <i>Scoletoma hebes</i> | 5001310140 | | | | | | | | | | | | | | | | 5 |
| <i>Scoletoma tenuis</i> | 50013101TENU | | | | | 1 | | | | | | | | | | | 1 |
| <i>Scopelos (Leptamus) rubra</i> | 5001400307 | | | | | | | | | | | | | | | | 1 |
| <i>Seila adamsi</i> | 5103460401 | | | | | | | | | | | | | | | | 1 |
| <i>Solemya velum</i> | 5504010101 | | | | | | | | | | | | | | | | 2 |
| <i>Sphaerodoropsis minuta</i> | 5001260201 | | | | | | | | | | | | | | | | 4 |
| <i>Sphaerosyllis longicauda</i> | 5001230817 | | | | | | | | | | | | | | | | 2 |
| <i>Sphaerosyllis taylori</i> | 5001230811 | | | | | | | | | | | | | | | | 3 |
| <i>Spio setosa</i> | 5001430704 | | | | | | | | | | | | | | | | 3 |
| <i>Spiochaetopterus oculatus</i> | 5001490303 | 2 | 1 | 1 | | | | | | | | | | | | | 6 |
| <i>Spionidae</i> spp. | 500143SPP | | | | | | | | | | | | | | | | 17 |
| <i>Spiophanes bombyx</i> | 5001431101 | | | | | | | | | | | | | | | | 1 |
| <i>Sthenelaia boa</i> | 5001060302 | | | | | | | | | | | | | | | | 1 |
| <i>Streblospio benedicti</i> | 5001431801 | | | | | | | | | | | | | | | | 1 |
| <i>Streptosyllis</i> ? <i>varians</i> | 5001231602 | | | | | | | | | | | | | | | | 5 |
| <i>Syllidae</i> spp. | 500123SPP | | | | | | | | | | | | | | | | 7 |
| <i>Syllididae</i> cf. <i>vernilli</i> | 5001231508CF | | | | | | | | | | | | | | | | 13 |
| <i>Tectonatica pusilla</i> | 5103760601 | | | | | | | | | | | | | | | | 18 |
| <i>Tellina agilis</i> | 5515310205 | 1 | 2 | | | 6 | | 2 | 2 | 2 | 1 | 1 | | | | | 167 |
| <i>Tellinidae</i> spp. | 551531SPP | | | | | | | | 10 | | | | 8 | | | | 30 |
| <i>Terebellidae</i> spp. | 500168SPP | | | | | | | | | | | | | | | | 1 |
| <i>Thalassinidea</i> spp. | 6178SPP | | | | | | | | | | | | | | | | 2 |
| <i>Tharyx acutus</i> | 5001500305 | 1 | 4 | 2 | 2 | 2 | | 2 | 4 | | | | 8 | 3 | | | 358 |
| <i>Thyasira gouldii</i> | 5515020301 | | | | | | | | | | | | 1 | 4 | | | 15 |
| <i>Turbellaria</i> spp. | 3901SPP | | | | | | | | | | | | | | | | 1 |
| <i>Turbonilla aequalis</i> | 5108010224 | | | | | | | | | | | | | | | | 1 |
| <i>Turbonilla areolata</i> | 5108010209AR | | | | | | | | | | | | | | | | 1 |
| <i>Turbonilla elegantula</i> | 5108010275 | 3 | | 14 | 21 | | | | | | | | 1 | 1 | | | 56 |
| <i>Turbonilla interrupta</i> | 5108010209 | 1 | | | | | | | | | | | 1 | 3 | | | 1 |
| | | | | | | | | | | | | | | | | | 28 |

| | Barcode | 5077015 | 5077017 | 5078015 | 5078017 | 5079015 | 5079017 | 5081015 | 5081017 | 5082015 | 5082017 | 5083015 | 5083017 | 5085015 | 5085017 | |
|------------------------|-------------|-------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| Station | 339 | 339 | 340 | 340 | 341 | 341 | 345 | 345 | 346 | 346 | 349 | 349 | 352 | 352 | | |
| Replicate | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | 1 | 3 | | |
| Taxon | NODC Code | | | | | | | | | | | | | | Total | |
| Turbonilla spp. | 51080102SPP | 4 | | | | | 2 | 5 | | | | | | | 39 | |
| Turbonilla summeri | 5108011102 | | 4 | | | | 13 | | | | 2 | | | 3 | 10 | |
| Turritellopsis acicula | 5103330201 | | | | | | | | | | | | | | 8 | |
| Typosyllis alternata | 5001230501 | | | | | 1 | | | | | | | | | 3 | |
| Typosyllis regulata | 5001230513 | | | | | | | | | | | | | | 1 | |
| Unciola dissimilis | 6169150706 | | | | | | | | | | | | | | 3 | |
| Unciola irrorata | 6169150703 | | | | | | | | | | | | | | 6 | |
| Unciola spp. | 61691507SPP | | | | | | | | | | | | | | 14 | |
| Xanthididae spp. | 618902SPP | | | | | | | | | | | | | | 12 | |
| Yoldia limatula | 5502040511 | 1 | | | | | | | | | | | | | 16 | |
| Yoldia sapotilla | 5502040513 | | | | | 2 | | | | | | | | | 2 | |
| Yoldia spp. | 55020405SPP | 1 | | | | | | | | | | | | | 6 | |
| Zacps ostreum | 6189060202 | 3 | | | | 1 | 1 | | | | 1 | 1 | | | 17 | |
| Grand Total | | 1417 | 944 | 842 | 885 | 933 | 124 | 1172 | 284 | 197 | 247 | 206 | 131 | 419 | 493 | 27701 |